



# STIC Search Report

## EIC 1700

STIC Database Tracking Number: 180237

**TO:** John Hardee  
**Location:** REM 9A41  
**Art Unit :** 1751  
**February 27, 2006**

**Case Serial Number:** 10/695282

**From:** Kathleen Fuller  
**Location:** EIC 1700  
**REMSEN 4B28**  
**Phone:** 571/272-2505  
**Kathleen.Fuller@uspto.gov**

### Search Notes

40  
4/01/02



# STIC Search Results Feedback Form

EIC 1700

Questions about the scope or the results of the search? Contact the EIC searcher or contact:

Kathleen Fuller, EIC 1700 Team Leader  
571/272-2505 REMSEN 4B28

Voluntary Results Feedback Form

- I am an examiner in Workgroup:  Example: 1713
- Relevant prior art found, search results used as follows:
- 102 rejection
  - 103 rejection
  - Cited as being of interest.
  - Helped examiner better understand the invention.
  - Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- Foreign Patent(s)
- Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art not found:

- Results verified the lack of relevant prior art (helped determine patentability).
- Results were not useful in determining patentability or understanding the invention.

Comments:

# SEARCH REQUEST FORM

## Scientific and Technical Information Center

Requester's Full Name: HARDER Examiner #: 72736 Date: 2/22/04  
 Art Unit: 1751 Phone Number 30: 21318 Serial Number: 107695,282  
 Mail Box and Bldg/Room Location: 9A41 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: \_\_\_\_\_

Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Filing Date: \_\_\_\_\_

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Elected polymer w/monomer(s) shown  
 in claim 2. Polymer can be a  
 copolymer. Don't worry about Kovats Index,  
 RF or protocol.  
 Thanks

SCIENTIFIC REFERENCE BR  
 Sci & Tech Inf. Ctr.

FEB 22 2004

Pat. & T.M. Office

<b>STAFF USE ONLY</b>		Type of Search	Vendors and cost where applicable
Searcher: <u>K. Fuller</u>		NA Sequence (#):	STN <u>/</u>
Searcher Phone #:		AA Sequence (#):	Dialog _____
Searcher Location:		Structure (#): <u>2</u>	Questel/Orbit _____
Date Searcher Picked Up:		Bibliographic	Dr.Link _____
Date Completed: <u>2/27/04</u>		Litigation	Lexis/Nexis _____
Searcher Prep & Review Time: <u>40</u>		Fulltext	Sequence Systems _____
Clerical Prep Time:		Patent Family	WWW/Internet _____
Online Time: <u>40</u>		Other	Other (specify) _____

=> FILE REG

FILE 'REGISTRY' ENTERED AT 15:11:20 ON 27 FEB 2006  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2006 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 26 FEB 2006 HIGHEST RN 875270-69-2  
DICTIONARY FILE UPDATES: 26 FEB 2006 HIGHEST RN 875270-69-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> FILE HCPL

FILE 'HCAPLUS' ENTERED AT 15:11:23 ON 27 FEB 2006  
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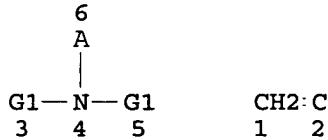
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FILE COVERS 1907 - 27 Feb 2006 VOL 144 ISS 10  
FILE LAST UPDATED: 26 Feb 2006 (20060226/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> D QUE  
 L5 SCR 2043  
 L7 STR



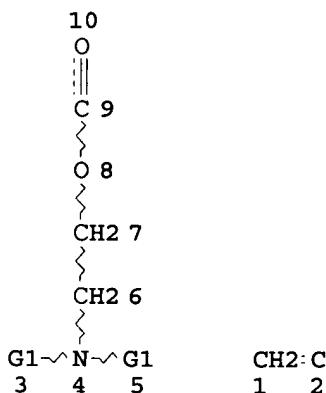
*80,650 polymers*

Ak @7

VAR G1=7/H  
 NODE ATTRIBUTES:  
 NSPEC IS RC AT 6  
 CONNECT IS M2 RC AT 2  
 CONNECT IS M2 RC AT 6  
 CONNECT IS E1 RC AT 7  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 7

STEREO ATTRIBUTES: NONE  
 L10 80650 SEA FILE=REGISTRY SSS FUL L7 AND LS  
 L11 STR



*Subset search for  
 selected polymer  
 19,979 polymers*

VAR G1=H/AK  
 NODE ATTRIBUTES:  
 CONNECT IS M2 RC AT 2  
 CONNECT IS M3 RC AT 9  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L13 19979 SEA FILE=REGISTRY SUB=L10 SSS FUL L11  
 L14 7942 SEA FILE=REGISTRY ABB=ON L13 AND 1-3/NC  
 L15 13527 SEA FILE=HCAPLUS ABB=ON L14  
 L16 4584 SEA FILE=HCAPLUS ABB=ON L15 (L) PREP/RL  
 L17 3 SEA FILE=HCAPLUS ABB=ON L16 (L) PERFUM?  
 L20 19596 SEA FILE=HCAPLUS ABB=ON L13  
 L21 7003 SEA FILE=HCAPLUS ABB=ON L20 (L) PREP/RL  
 L22 4 SEA FILE=HCAPLUS ABB=ON L21 (L) PERFUM?  
 L23 69 SEA FILE=HCAPLUS ABB=ON L21 AND PERFUM?  
 L26 2 SEA FILE=HCAPLUS ABB=ON L21 AND PERFUM? (3A) PARTICL?  
 L27 9 SEA FILE=HCAPLUS ABB=ON L23 AND PARTICLE?  
 L28 89 SEA FILE=HCAPLUS ABB=ON L21 AND (PERFUM? OR SCENT? OR ODOR?)  
 L29 12 SEA FILE=HCAPLUS ABB=ON L28 AND PARTICLE?  
 L30 15 SEA FILE=HCAPLUS ABB=ON L17 OR L22 OR L26 OR L27 OR L29

=&gt; D L30 1-15 BIB ABS IND HITSTR

*15 references with particle*

L30 ANSWER 1 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:1220343 HCAPLUS

DN 143:478665

TI Preparation of biodegradable grafted copolymers useful for ingredient delivery system

IN Berthier, Damien; Ouali, Lahoussine

PA Firmenich SA, Switz.

SO PCT Int. Appl., 35 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005108471	A1	20051117	WO 2005-IB1179	20050502
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRAI EP 2004-101930 A 20040505

AB The invention concerns a biodegradable copolymer composition consisting of a polysaccharide backbone grafted with amphiphilic diblock copolymers, as well as a process for the preparation of such composition and a particle suitable for the release of active ingredients made of such a composition. Thus, 4 g hydroxypropyl cellulose and 12.77 mmol hexamethyldisilazane were reacted at 90° for 4 h, 200 mg of which was mixed with 7.06 g L-lactide, heated at 135° in the presence of tin octanoate for 72 h to give L-lactide-hydroxypropyl cellulose graft copolymer, 5.80 g of the resulting graft copolymer and 1.52 g 2-bromopropionyl bromide were reacted, 0.5 g of the resulting product was dissolved in anisole, 4.41 g 2-dimethylaminoethyl methacrylate was added therein and polymerized in the

presence of copper bromide at 60° for 3 h, and reacted with di-Me sulfate to give quaternized hydroxypropyl cellulose-L-lactide-dimethylaminoethyl methacrylate graft-block copolymer, the resulting copolymer was mixed with 50% linalool, showing good heat resistance suitable for a fragrance delivery system.

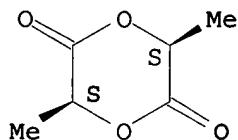
- IC ICM C08G083-00  
 ICS A61K007-46; C08F251-00  
 CC 37-3 (Plastics Manufacture and Processing)  
 Section cross-reference(s): 38, 62, 63  
 ST biodegradable grafted copolymer prepн ingredient delivery system; hydroxypropyl cellulose silylation; lactide hydroxypropyl cellulose dimethylaminoethyl methacrylate graft block copolymer quaternization; fragrance delivery system  
 IT Polyesters, preparation  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (acrylic, block, graft, cellulose-; preparation of biodegradable grafted copolymers useful for ingredient delivery system)  
 IT Polysaccharides, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (graft polymers, amphiphilic diblock-; preparation of biodegradable grafted copolymers useful for ingredient delivery system)  
 IT Biodegradable materials  
 Drug delivery systems  
 Flavor  
 Perfumes  
 (preparation of biodegradable grafted copolymers useful for ingredient delivery system)  
 IT 563-76-8DP, 2-Bromopropionyl bromide, reaction products with hydroxypropyl cellulose-lactide graft copolymer 999-97-3DP, Hexamethyldisilazane, reaction products with hydroxypropyl cellulose 9004-64-2DP, Hydroxypropylcellulose, reaction products with hexamethyldisilazane 247220-94-6P, 2-Hydroxypropylcellulose-L-lactide graft copolymer 869463-77-4P  
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
 (intermediate; preparation of biodegradable grafted copolymers useful for ingredient delivery system)  
 IT 247220-94-6DP, 2-Hydroxypropylcellulose-L-lactide graft copolymer, reaction products with bromopropionyl bromide 869463-78-5P  
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of biodegradable grafted copolymers useful for ingredient delivery system)  
 IT 77-78-1DP, Dimethylsulfate, reaction products with lactide hydroxypropyl cellulose dimethylaminoethyl methacrylate graft block copolymers 869463-77-4DP, quaternized with di-Me sulfate 869463-78-5DP, debutylated 869463-79-6P  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (preparation of biodegradable grafted copolymers useful for ingredient delivery system)  
 IT 869463-77-4P  
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
 (intermediate; preparation of biodegradable grafted copolymers useful for ingredient delivery system)  
 RN 869463-77-4 HCPLUS  
 CN Cellulose, 2-hydroxypropyl ether, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate and (3S,6S)-3,6-dimethyl-1,4-dioxane-2,5-dione,

diblock, graft (9CI) (CA INDEX NAME)

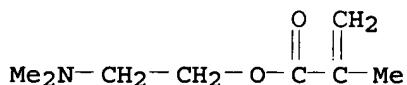
CM 1

CRN 4511-42-6  
CMF C6 H8 O4

Absolute stereochemistry.



CM 2

CRN 2867-47-2  
CMF C8 H15 N O2

CM 3

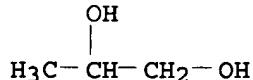
CRN 9004-64-2  
CMF C3 H8 O2 . x Unspecified

CM 4

CRN 9004-34-6  
CMF Unspecified  
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 5

CRN 57-55-6  
CMF C3 H8 O2

IT 869463-77-4DP, quaternized with di-Me sulfate 869463-79-6P  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (preparation of biodegradable grafted copolymers useful for ingredient delivery system)

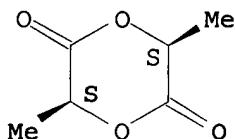
RN 869463-77-4 HCAPLUS  
 CN Cellulose, 2-hydroxypropyl ether, polymer with 2-(dimethylamino)ethyl

2-methyl-2-propenoate and (3S,6S)-3,6-dimethyl-1,4-dioxane-2,5-dione,  
diblock, graft (9CI) (CA INDEX NAME)

CM 1

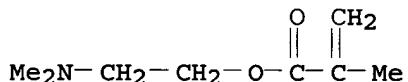
CRN 4511-42-6  
CMF C6 H8 O4

Absolute stereochemistry.



CM 2

CRN 2867-47-2  
CMF C8 H15 N O2



CM 3

CRN 9004-64-2  
CMF C3 H8 O2 . x Unspecified

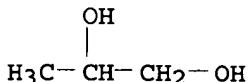
CM 4

CRN 9004-34-6  
CMF Unspecified  
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 5

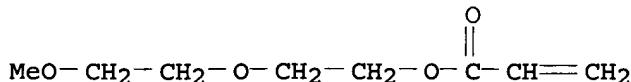
CRN 57-55-6  
CMF C3 H8 O2



RN 869463-79-6 HCPLUS

CN Cellulose, 2-hydroxypropyl ether, polymer with 2-(dimethylamino)ethyl  
2-methyl-2-propenoate, (3S,6S)-3,6-dimethyl-1,4-dioxane-2,5-dione,  
1,1-dimethylethyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-propenoate and  
2-(2-methoxyethoxy)ethyl 2-propenoate (9CI) (CA INDEX NAME)

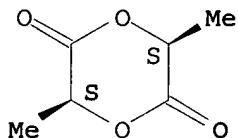
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CRN 7328-18-9  
CMF C8 H14 O4

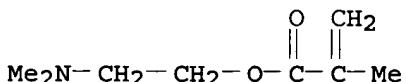
CM 2

CRN 4511-42-6  
CMF C6 H8 O4

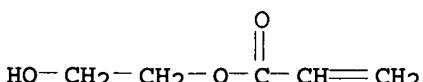
Absolute stereochemistry.



CM 3

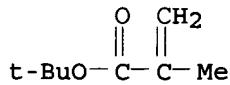
CRN 2867-47-2  
CMF C8 H15 N O2

CM 4

CRN 818-61-1  
CMF C5 H8 O3

CM 5

CRN 585-07-9  
CMF C8 H14 O2



CM 6

CRN 9004-64-2  
 CMF C3 H8 O2 . x Unspecified

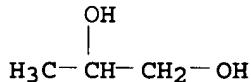
CM 7

CRN 9004-34-6  
 CMF Unspecified  
 CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 8

CRN 57-55-6  
 CMF C3 H8 O2



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 2 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2005:1200313 HCAPLUS  
 DN 143:461006  
 TI Particulate compositions comprising vinyl polymer-encapsulated hydrophobic materials and their manufacture  
 IN Dungworth, Howard Roger; Weston, Rachel; Kelly, Rebecca  
 PA Ciba Specialty Chemicals Water Treatment Limited, UK  
 SO PCT Int. Appl., 37 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005105291	A1	20051110	WO 2005-EP4116	20050418
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,				

MR, NE, SN, TD, TG

PRAI GB 2004-9570 A 20040429

AB A composition comprising **particles** which comprise a core material within a polymeric shell, wherein the core material comprises a hydrophobic substance, in which the amount of the polymeric shell forms at least 8% of the total weight of the **particles**, wherein the polymeric shell comprises a copolymer formed from a monomer blend which comprises, (A) 5 to 90% by weight of an ethylenically unsatd. water soluble monomer, (B) 5 to 90% by weight of a multifunctional monomer, and (C) 0 to 55% by weight other monomer, and wherein the amount of the polymeric shell and the proportions of A, B and C are such that the **particles** exhibit a half height of at least 350°, i.e., temperature at which half of the capsule weight is lost. The invention includes a process for the manufacture of **particles** and the use of **particles** in articles, such as fabrics, and coating compns., especially for textiles. Typical capsules are manufactured by emulsion radical polymerization of methacrylic acid 27, butanediol diacrylate 24, and Me methacrylate 9 g in presence of 140 g octadecane.

IC ICM B01J013-18

ICS D06M023-12

CC 37-6 (Plastics Manufacture and Processing)

ST heat resistant vinyl polymer encapsulated hydrophobic material granulate; methacrylic acid butanediol diacrylate methyl methacrylate copolymer encapsulated octadecane

IT Acrylic polymers, uses

Polyurethanes, uses

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

(coating binder; particulate compns. comprising vinyl polymer-encapsulated hydrophobic materials with improved heat resistance for inclusion in textile coatings)

IT Polymerization

(emulsion, radical; of water-soluble ethylenically unsatd. monomers with multifunctional monomers in manuf of capsules of hydrophobic materials with improved heat resistance)

IT Antioxidants

Biocides

Corrosion inhibitors

Detergent builders

Dispersing agents

Dyes

Fireproofing agents

Optical reflectors

Perfumes

Phase change materials

Pigments, nonbiological

Pour-point depressants

Scale inhibitors

Tracers

UV stabilizers

(encapsulated material; particulate compns. comprising vinyl polymer-encapsulated hydrophobic materials with improved heat resistance)

IT Enzymes, processes

Hydrocarbon oils

Hydrocarbons, processes

Polysiloxanes, processes

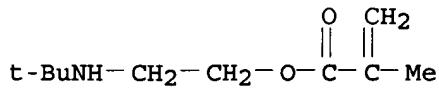
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)

(encapsulated material; particulate compns. comprising vinyl

polymer-encapsulated hydrophobic materials with improved heat resistance)

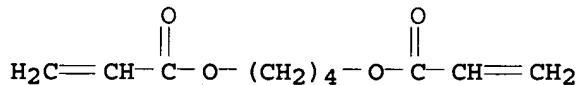
- IT Paper (packaging; particulate compns. comprising vinyl polymer-encapsulated hydrophobic materials with improved heat resistance for inclusion in paper packaging)
- IT Paperboard (packaging; particulate compns. comprising vinyl polymer-encapsulated hydrophobic materials with improved heat resistance for inclusion in paperboard packaging)
- IT Packaging materials (paper; particulate compns. comprising vinyl polymer-encapsulated hydrophobic materials with improved heat resistance for inclusion in paper packaging)
- IT Capsules Heat-resistant materials (particulate compns. comprising vinyl polymer-encapsulated hydrophobic materials with improved heat resistance)
- IT Synthetic polymeric fibers, miscellaneous RL: MSC (Miscellaneous) (particulate compns. comprising vinyl polymer-encapsulated hydrophobic materials with improved heat resistance for inclusion in synthetic polymeric fibers)
- IT Coating materials (particulate compns. comprising vinyl polymer-encapsulated hydrophobic materials with improved heat resistance for inclusion in textile coatings)
- IT Textiles (particulate compns. comprising vinyl polymer-encapsulated hydrophobic materials with improved heat resistance for inclusion in textiles)
- IT 593-45-3, Octadecane RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process) (encapsulated material; particulate compns. comprising vinyl polymer-encapsulated hydrophobic materials with improved heat resistance)
- IT 623148-14-1P, 1,4-Butanediol diacrylate-methacrylic acid-methyl methacrylate copolymer 869083-09-0P, 1,4-Butanediol diacrylate-itaconic acid-methyl methacrylate copolymer 869083-11-4P, 1,4-Butanediol diacrylate-tert-butylaminoethyl methacrylate copolymer 869083-13-6P, 1,4-Butanediol diacrylate-tert-butylaminoethyl methacrylate-methyl methacrylate copolymer 869083-15-8P, 1,4-Butanediol diacrylate-2-methacryloyloxyethyltrimethylammonium chloride copolymer RL: IMF (Industrial manufacture); PREP (Preparation) (particulate compns. comprising vinyl polymer-encapsulated hydrophobic materials with improved heat resistance)
- IT 869083-11-4P, 1,4-Butanediol diacrylate-tert-butylaminoethyl methacrylate copolymer 869083-13-6P, 1,4-Butanediol diacrylate-tert-butylaminoethyl methacrylate-methyl methacrylate copolymer 869083-15-8P, 1,4-Butanediol diacrylate-2-methacryloyloxyethyltrimethylammonium chloride copolymer RL: IMF (Industrial manufacture); PREP (Preparation) (particulate compns. comprising vinyl polymer-encapsulated hydrophobic materials with improved heat resistance)
- RN 869083-11-4 HCPLUS
- CN 2-Propenoic acid, 2-methyl-, 2-[(1,1-dimethylethyl)amino]ethyl ester, polymer with 1,4-butanediyl di-2-propenoate (9CI) (CA INDEX NAME)

CRN 3775-90-4  
 CMF C10 H19 N O2



CM 2

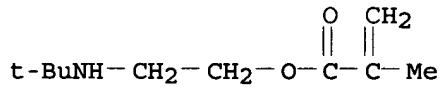
CRN 1070-70-8  
 CMF C10 H14 O4



RN 869083-13-6 HCPLUS  
 CN 2-Propenoic acid, 2-methyl-, 2-[(1,1-dimethylethyl)amino]ethyl ester,  
 polymer with 1,4-butanediyl di-2-propenoate and methyl  
 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

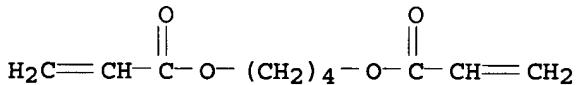
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CRN 3775-90-4  
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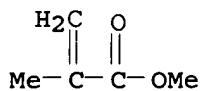
CM 2

CRN 1070-70-8  
 CMF C10 H14 O4



CM 3

CRN 80-62-6  
 CMF C5 H8 O2



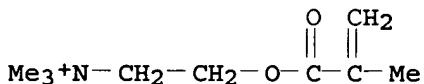
RN 869083-15-8 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with 1,4-butanediyl di-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 5039-78-1

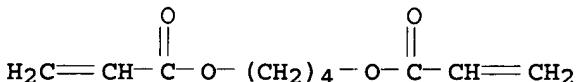
CMF C9 H18 N O2 . Cl

● Cl<sup>-</sup>

CM 2

CRN 1070-70-8

CMF C10 H14 O4

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 3 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:15924 HCAPLUS

DN 142:96353

TI Lipophilic fluid cleaning compositions capable of delivering scent  
IN Baker, Keith Homer; Hartshorn, Richard Timothy; Dykstra, Robert Richard;  
Scheper, William Michael; Sivik, Mark Robert; Haught, John Christian

PA The Procter &amp; Gamble Company, USA

SO U.S. Pat. Appl. Publ., 10 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005003980	A1	20050106	US 2004-874842	20040623
	CA 2526310	AA	20050113	CA 2004-2526310	20040628
	WO 2005003434	A2	20050113	WO 2004-US20614	20040628
	WO 2005003434	A3	20051006		

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 CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,  
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,  
 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,  
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,  
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,  
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,  
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,  
 SN, TD, TG

PRAI US 2003-483359P P 20030627

WO 2004-US20614 W 20040628

AB The present invention relates to a composition and/or system comprising a perfume composition for use in a lipophilic fluid fabric treatment system and methods of making and using same. Such composition provides perfume/fabric substantivity. Thus, 0.01% an amine product obtained from Lupasol G 100 and Damascene was added to a lipophilic fluid and mixed for 1-3 min, 0.015% a benefit agent was added to the amine-containing lipophilic fluid composition and mixed for 5 min to give a lipophilic cleaning fluid composition

IC ICM D06L001-00

INCL 510276000

CC 46-5 (Surface Active Agents and Detergents)

Section cross-reference(s): 40

ST lipophilic fluid cleaning compn delivering scent; Lupasol Damascene reaction product lipophilic cleaning fluid compn

IT Zeolites (synthetic), uses

RL: TEM (Technical or engineered material use); USES (Uses)  
 (activated, perfume delivery system; lipophilic fluid cleaning compns.  
 capable of delivering scent)

IT Detergents

(cleaning compns., lipophilic; lipophilic fluid cleaning compns.  
 capable of delivering scent)

IT Detergents

(laundry; lipophilic fluid cleaning compns. capable of delivering  
 scent)

IT Perfumes

(lipophilic fluid cleaning compns. capable of delivering scent)

IT Aminoplasts

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (lipophilic fluid cleaning compns. capable of delivering scent)

IT Solvents

(lipophilic; lipophilic fluid cleaning compns. capable of delivering  
 scent)

IT Latex

(micro, perfume delivery system; lipophilic fluid cleaning compns.  
 capable of delivering scent)

IT Microcapsules

(perfume delivery system; lipophilic fluid cleaning compns. capable of  
 delivering scent)

IT Textiles

(substrates; lipophilic fluid cleaning compns. capable of delivering  
 scent)

IT 9002-88-4, Polywax 500

RL: MOA (Modifier or additive use); USES (Uses)  
 (carrier; lipophilic fluid cleaning compns. capable of delivering  
 scent)

IT 62306-33-6, Octamethylcyclopentasiloxane

RL: TEM (Technical or engineered material use); USES (Uses)

IT 9011-05-6P, Formaldehyde-urea copolymer  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (microcapsule, perfume delivery system; lipophilic fluid cleaning compns. capable of delivering scent)

IT 9004-32-4, Carboxymethyl cellulose  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (microcapsule, perfume delivery system; lipophilic fluid cleaning compns. capable of delivering scent)

IT 819757-96-5P  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (microparticle, perfume delivery system; lipophilic fluid cleaning compns. capable of delivering scent)

IT 819758-04-8P  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (nanolatex, perfume delivery system; lipophilic fluid cleaning compns. capable of delivering scent)

IT 80111-68-8DP, Damascone, reaction products with Lupasol  
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)  
 (perfume delivery system; lipophilic fluid cleaning compns. capable of delivering scent)

IT 9002-98-6DP, Lupasol G 100, reaction products with Damascone  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (perfume delivery system; lipophilic fluid cleaning compns. capable of delivering scent)

IT 9004-34-6, Cellulose, uses 9005-25-8, Starch, uses 9005-25-8D, Starch, hydrogenated and hydrolyzed 12619-70-4, Cyclodextrin 204866-68-2, Polysorb RA 1000  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (perfume delivery system; lipophilic fluid cleaning compns. capable of delivering scent)

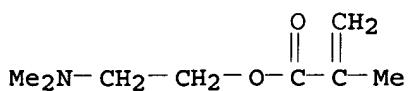
IT 9002-98-6, Lupasol G 100 80111-68-8, Damascone  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reactant in perfume delivery system preparation; lipophilic fluid cleaning compns. capable of delivering scent)

IT 819757-96-5P  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (microparticle, perfume delivery system; lipophilic fluid cleaning compns. capable of delivering scent)

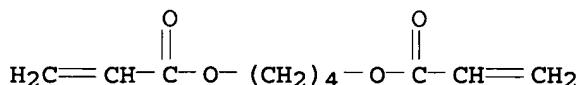
RN 819757-96-5 HCAPLUS  
 CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1,4-butanediyl di-2-propenoate, 1,1-dimethylethyl 2,2-dimethylpropaneperoxoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

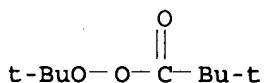
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CMF C8 H15 N O2



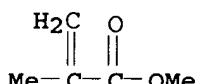
CM 2

CRN 1070-70-8  
CMF C10 H14 O4

CM 3

CRN 927-07-1  
CMF C9 H18 O3

CM 4

CRN 80-62-6  
CMF C5 H8 O2

IT 819758-04-8P

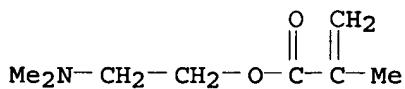
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(nanolatex, perfume delivery system; lipophilic fluid cleaning compns. capable of delivering scent)

RN 819758-04-8 HCPLUS

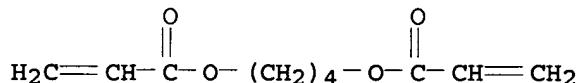
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1,4-butanediyl di-2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

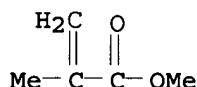
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CM 2

CRN 1070-70-8  
CMF C10 H14 O4

CM 3

CRN 80-62-6  
CMF C5 H8 O2

L30 ANSWER 4 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2004:965137 HCAPLUS  
 DN 141:412991  
 TI Particulate emulsifiers, emulsions and uses thereof  
 IN Binks, Bernard P.; Armes, Steven P.; Whitby, Catherine P.; Amalvy, Javier I.  
 PA The University of Sussex, UK; The University of Hull  
 SO PCT Int. Appl., 88 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004096422	A1	20041111	WO 2004-GB1913	20040429
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
GB 2403920	A1	20050119	GB 2004-9558	20040429
PRAI GB 2003-9931	A	20030430		
AB Use of a particulate emulsifier comprising at least one polymer, in an				

oil-in water or water-in-oil emulsion, wherein the hydrophilic/hydrophobic balance of the polymer can be varied on application of a stimulus to break the emulsion, or to cause phase inversion.

IC ICM B01F017-00

CC 48-11 (Unit Operations and Processes)  
Section cross-reference(s): 35, 38, 46, 66

ST particulate block graft copolymer emulsifier emulsion emulsification phase inversion; acrylic polymer pH sensitive steric stabilization inverse emulsion demulsifier; core shell graft polymn seeded group transfer emulsion stabilizer

IT Amphoteric materials  
(amphiphilic, block polymeric stabilizers; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT Polymerization  
(anionic; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT Polymerization  
(batch, emulsion; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT Emulsification

Emulsifying agents

Emulsions

Latex

Micelles

Microgels

Stabilizing agents  
(block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT Polymers, processes  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PUR (Purification or recovery); PYP (Physical process); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)  
(block, diblock; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT Chemical chains  
(conformation of, responds to stimulus; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT Acrylic polymers, processes  
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PRP (Properties); PUR (Purification or recovery); PYP (Physical process); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)  
(copolymers and block-graft copolymers of; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT Polymer morphology  
(core-shell, emulsion polymerization and use of; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT Coagulation  
(deemulsification; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT Polymerization  
(dispersion; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT Phase transition  
(emulsion phase inversion; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT Electric double layer

Steric effects  
(emulsion stabilization; block and graft copolymer particulate

emulsifiers and stabilizers, emulsions and uses thereof)

IT Polymerization  
(emulsion, radical; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT Polymerization  
(emulsion, seed; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT Agrochemicals

Cosmetics

Flavoring materials

Food additives

Health products

Odor and Odorous substances  
(emulsions containing; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT Polymerization  
(group-transfer; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT Solubility  
(in water, responds to stimulus; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT Materials  
(inorg., core of core-shell polymeric stabilizers; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT Particle size  
(of particles, 1-10000 nm; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT Hydrophile-lipophile balance value  
(of polymer and particulate emulsifier, varies with pH; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT Alkenes, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polymers and copolymers of; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT Hydration, chemical

Interfacial tension

Protonation

Solvation  
(responds to stimulus; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT Ionic strength

pH  
(stimulus for response; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT Amines, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(tertiary, reaction products, methacrylates terminating in, block copolymers containing; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT Emulsions  
(water-in-oil; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT 78-67-1, AIBN 110-18-9, N,N,N',N'-Tetramethylethylenediamine 121-44-8,  
Triethylamine, uses 2638-94-0, 4,4'-Azobis(4-cyanovaleic acid)  
2997-92-4 7727-54-0, Ammonium persulfate  
RL: CAT (Catalyst use); USES (Uses)  
(block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT 123-31-9, Hydroquinone, uses 151-21-3, Sodium dodecyl sulfate, uses 1310-73-2, Sodium hydroxide, uses 7647-01-0, Hydrochloric acid, uses 9005-65-6, Tween 80  
RL: MOA (Modifier or additive use); USES (Uses)  
(block and graft copolymer particulate emulsifiers and stabilizers,  
emulsions and uses thereof)

IT 55972-61-7P 86112-81-4P, 1-Pyrenylmethyl methacrylate-Styrene copolymer 88823-21-6P 784178-48-9P 792188-68-2P 792188-69-3P 792188-70-6P 792915-48-1P 792915-49-2P  
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PRP (Properties); PUR (Purification or recovery); PYP (Physical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); USES (Uses)  
(block and graft copolymer particulate emulsifiers and stabilizers,  
emulsions and uses thereof)

IT 26915-72-0, Poly(ethylene glycol) methacrylate methyl ether  
RL: MOA (Modifier or additive use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)  
(block and graft copolymer particulate emulsifiers and stabilizers,  
emulsions and uses thereof)

IT 64-17-5, Ethanol, uses  
RL: NUU (Other use, unclassified); USES (Uses)  
(block and graft copolymer particulate emulsifiers and stabilizers,  
emulsions and uses thereof)

IT 9081-45-2P 704902-63-6P, 2-(Dimethylamino)ethyl methacrylate-methyl methacrylate diblock copolymer  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PUR (Purification or recovery); PYP (Physical process); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)  
(block and graft copolymer particulate emulsifiers and stabilizers,  
emulsions and uses thereof)

IT 9003-53-6P, Polystyrene 736993-27-4P 792188-67-1P  
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PUR (Purification or recovery); PYP (Physical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)  
(block and graft copolymer particulate emulsifiers and stabilizers,  
emulsions and uses thereof)

IT 86112-79-0P, 1-Pyrenylmethyl methacrylate  
RL: PEP (Physical, engineering or chemical process); PUR (Purification or recovery); PYP (Physical process); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)  
(block and graft copolymer particulate emulsifiers and stabilizers,  
emulsions and uses thereof)

IT 112-40-3, n-Dodecane 544-76-3, n-Hexadecane 628-63-7, n-Amyl acetate  
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)  
(block and graft copolymer particulate emulsifiers and stabilizers,  
emulsions and uses thereof)

IT 77-77-0, Divinyl sulfone 80-62-6, Methyl methacrylate 97-90-5, Ethylene glycol dimethacrylate 100-42-5, Styrene, reactions 105-16-8, 2-(Diethylamino)ethyl methacrylate 106-91-2, Glycidyl methacrylate 920-46-7, Methacryloyl chloride 2867-47-2, 2-(Dimethylamino)ethyl methacrylate 16715-83-6, 2-(Diisopropylamino)ethyl methacrylate 24463-15-8, 1-Pyrenemethanol 52496-08-9, Poly(propylene glycol) diacrylate  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(block and graft copolymer particulate emulsifiers and stabilizers,

emulsions and uses thereof)

IT 74-85-1D, Ethene, polymers and copolymers of 75-01-4D, Vinyl chloride, polymers and copolymers of 75-21-8D, Ethylene oxide, block copolymers containing 79-06-1D, Acrylamide, polymers and copolymers of 79-10-7D, Acrylic acid, polymers and copolymers of 79-41-4D, Methacrylic acid, alkyl and other esters, polymers and copolymers of 79-41-4D, Methacrylic acid, polymers and copolymers of 88-12-0D, polymers and copolymers of 100-42-5D, Styrene, seeded block-graft polymers and copolymers of 105-16-8D, 2-(Diethylamino)ethyl methacrylate, polymers and copolymers of 107-13-1D, Acrylonitrile, polymers and copolymers of 108-05-4D, Vinyl acetate, polymers and copolymers of 126-99-8D, Chloroprene, polymers and copolymers of 1663-39-4D, tert-Butyl acrylate, polymers and copolymers of 2867-47-2D, 2-(Dimethylamino)ethyl methacrylate, polymers and copolymers of 16715-83-6D, 2-(Diisopropylamino)ethyl methacrylate, polymers and copolymers of 20769-99-7D, polymers and copolymers of 81772-48-7D, polymers and copolymers of

RL: TEM (Technical or engineered material use); USES (Uses)

(block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT 471-34-1, Calcium carbonate, uses 1309-37-1, Iron oxide (Fe2O3), uses 1344-28-1, Alumina, uses 7631-86-9, Silica, uses 7727-43-7, Barium sulfate 7778-18-9, Calcium sulfate

RL: TEM (Technical or engineered material use); USES (Uses)

(core of core-shell polymeric stabilizers; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT 67-56-1, Methanol, uses

RL: NUU (Other use, unclassified); USES (Uses)

(cosolvent in continuous phase for emulsions; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT 73342-17-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(d.p. 46; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT 110-27-0, Isopropyl myristate 112-42-5, 1-Undecanol 124-10-7, Methyl myristate 470-82-6

RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)

(emulsions of; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT 366-18-7, 2,2'-Bipyridine 7758-89-6, Copper chloride (CuCl)

RL: CAT (Catalyst use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)

(precursor; block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

IT 55972-61-7P 88823-21-6P 784178-48-9P

792188-68-2P 792188-69-3P 792188-70-6P

792915-48-1P 792915-49-2P

RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PRP (Properties); PUR (Purification or recovery); PYP (Physical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); USES (Uses)

(block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

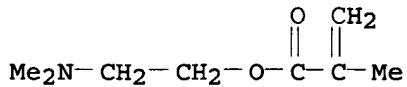
RN 55972-61-7 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with ethenylbenzene and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

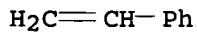
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CRN 2867-47-2

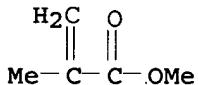
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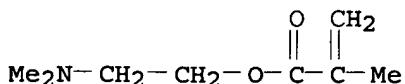
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CRN 100-42-5  
CMF C8 H8

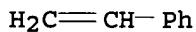
CM 3

CRN 80-62-6  
CMF C5 H8 O2RN 88823-21-6 HCPLUS  
CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester, polymer with  
2-(dimethylamino)ethyl 2-methyl-2-propenoate and ethenylbenzene (9CI) (CA  
INDEX NAME)

CM 1

CRN 2867-47-2  
CMF C8 H15 N O2

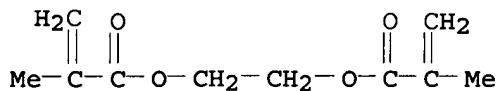
CM 2

CRN 100-42-5  
CMF C8 H8

CM 3

CRN 97-90-5

CMF C10 H14 O4



RN 784178-48-9 HCPLUS

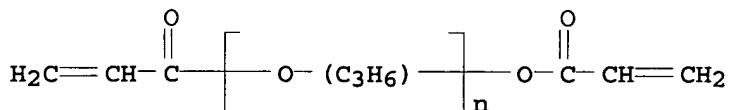
CN 2-Propenoic acid, 2-methyl-, 2-(diethylamino)ethyl ester, polymer with  $\alpha$ -(1-oxo-2-propenyl)- $\omega$ -[(1-oxo-2-propenyl)oxy]poly[oxy(methyl-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

CM 1

CRN 52496-08-9

CMF (C<sub>3</sub> H<sub>6</sub> O)<sub>n</sub> C<sub>6</sub> H<sub>6</sub> O<sub>3</sub>

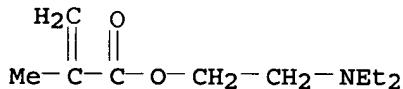
CCI IDS, PMS



CM 2

CRN 105-16-8

CMF C10 H19 N O2

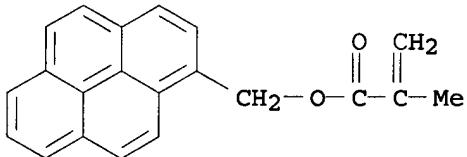


RN 792188-68-2 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with ethenylbenzene, methyl 2-methyl-2-propenoate and 1-pyrenylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

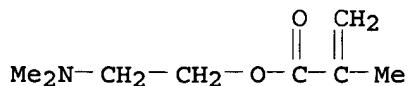
CM 1

CRN 86112-79-0

CMF C<sub>21</sub> H<sub>16</sub> O<sub>2</sub>

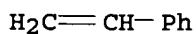
CM 2

CRN 2867-47-2  
 CMF C8 H15 N O2



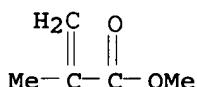
CM 3

CRN 100-42-5  
 CMF C8 H8



CM 4

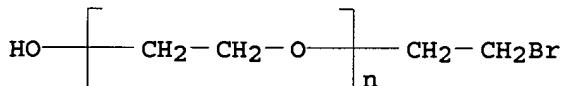
CRN 80-62-6  
 CMF C5 H8 O2



RN 792188-69-3 HCPLUS  
 CN 2-Propenoic acid, 2-methyl-, 2-(diethylamino)ethyl ester, polymer with  
 $\alpha$ -(2-bromoethyl)- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl) and  
 oxiranymethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

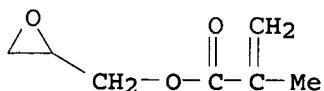
CM 1

CRN 73342-17-3  
 CMF (C2 H4 O)n C2 H5 Br O  
 CCI PMS



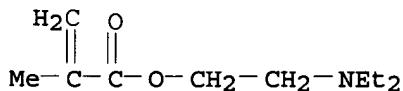
CM 2

CRN 106-91-2  
 CMF C7 H10 O3



CM 3

CRN 105-16-8  
 CMF C10 H19 N O2

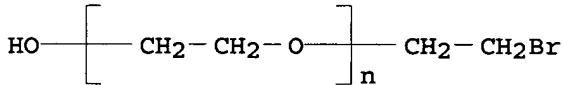


RN 792188-70-6 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(diethylamino)ethyl ester, polymer with  $\alpha$ -(2-bromoethyl)- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl), oxiranylmethyl 2-methyl-2-propenoate and 1,1'-sulfonylbis[ethene] (9CI) (CA INDEX NAME)

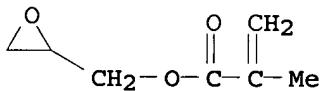
CM 1

CRN 73342-17-3  
 CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>2</sub> H<sub>5</sub> Br O  
 CCI PMS



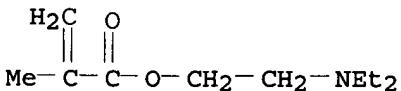
CM 2

CRN 106-91-2  
 CMF C<sub>7</sub> H<sub>10</sub> O<sub>3</sub>



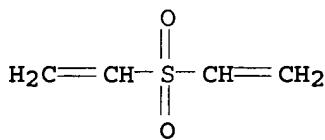
CM 3

CRN 105-16-8  
 CMF C10 H19 N O2



CM 4

CRN 77-77-0  
 CMF C<sub>4</sub> H<sub>6</sub> O<sub>2</sub> S



RN 792915-48-1 HCAPLUS

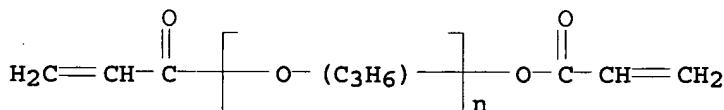
CN 2-Propenoic acid, 2-methyl-, 2-(diethylamino)ethyl ester, polymer with  
 $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -methoxypoly(oxy-1,2-ethanediyl) and  $\alpha$ -(1-oxo-2-propenyl)- $\omega$ -[(1-oxo-2-propenyl)oxy]poly[oxy(methyl-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

CM 1

CRN 52496-08-9

CMF (C<sub>3</sub> H<sub>6</sub> O)<sub>n</sub> C<sub>6</sub> H<sub>6</sub> O<sub>3</sub>

CCI IDS, PMS

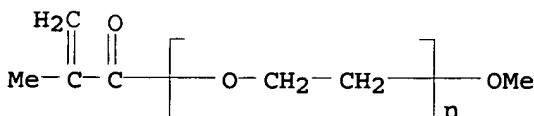


CM 2

CRN 26915-72-0

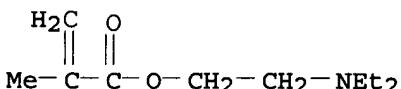
CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>5</sub> H<sub>8</sub> O<sub>2</sub>

CCI PMS



CM 3

CRN 105-16-8

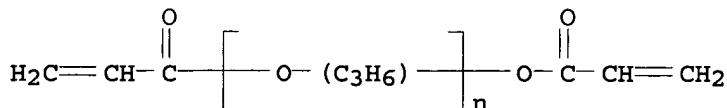
CMF C<sub>10</sub> H<sub>19</sub> N O<sub>2</sub>

RN 792915-49-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[bis(1-methylethyl)amino]ethyl ester, polymer with  $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -methoxypoly(oxy-1,2-ethanediyl) and  $\alpha$ -(1-oxo-2-propenyl)- $\omega$ -[(1-oxo-2-propenyl)oxy]poly[oxy(methyl-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

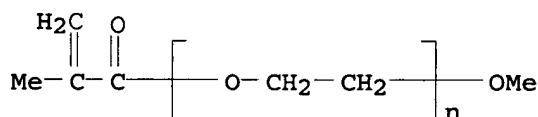
CM 1

CRN 52496-08-9  
 CMF (C<sub>3</sub> H<sub>6</sub> O)<sub>n</sub> C<sub>6</sub> H<sub>6</sub> O<sub>3</sub>  
 CCI IDS, PMS



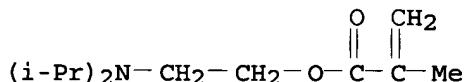
CM 2

CRN 26915-72-0  
 CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>5</sub> H<sub>8</sub> O<sub>2</sub>  
 CCI PMS



CM 3

CRN 16715-83-6  
 CMF C<sub>12</sub> H<sub>23</sub> N O<sub>2</sub>



IT 704902-63-6P, 2-(Dimethylamino)ethyl methacrylate-methyl methacrylate diblock copolymer

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PUR (Purification or recovery); PYP (Physical process); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)

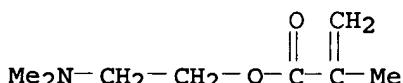
(block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

RN 704902-63-6 HCPLUS

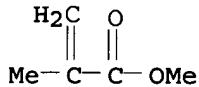
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with methyl 2-methyl-2-propenoate, diblock (9CI) (CA INDEX NAME)

CM 1

CRN 2867-47-2  
 CMF C<sub>8</sub> H<sub>15</sub> N O<sub>2</sub>



CM 2

CRN 80-62-6  
CMF C5 H8 O2

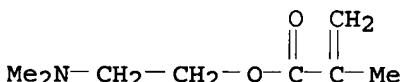
IT 736993-27-4P

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PUR (Purification or recovery); PYP (Physical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)  
 (block and graft copolymer particulate emulsifiers and stabilizers, emulsions and uses thereof)

RN 736993-27-4 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with ethenylbenzene, diblock (9CI) (CA INDEX NAME)

CM 1

CRN 2867-47-2  
CMF C8 H15 N O2

CM 2

CRN 100-42-5  
CMF C8 H8 $\text{H}_2\text{C}=\text{CH}-\text{Ph}$ RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 5 OF 15 HCPLUS COPYRIGHT 2006 ACS on STN

AN 2004:412786 HCPLUS

DN 140:428710

TI Perfume polymeric particles

IN Jordan, Glenn Thomas, IV; Kluesener, Bernard William; Sivik, Mark Robert; Santamarina, Vicente; Dykstra, Robert Richard; Lebedev, Nathalia; Gallon, Lois Sara; Baker, Ellen Schmidt; Amrhein, Patrick; Boeckh, Dieter; Frenzel, Stefan; Jahns, Ekkehard; Schwendemann, Volker

PA The Procter & Gamble Company, USA; BASF Aktiengesellschaft  
SO PCT Int. Appl., 41 pp.

DT Patent

LA English

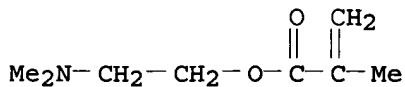
*applicants*

## FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004041232	A1	20040521	WO 2003-US34676	20031031
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2004110648	A1	20040610	US 2003-695282	20031028
	CA 2504386	AA	20040521	CA 2003-2504386	20031031
	EP 1562542	A1	20050817	EP 2003-778025	20031031
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
PRAI	US 2002-423107P	P	20021101		
	WO 2003-US34676	W	20031031		
AB	Perfume polymeric particles, polymeric particles having affinities for certain perfume raw materials, compns. containing them and methods for making the same are provided. An acrylate-styrene copolymer microparticle suspension was prepared having solid contents of 31.1% and a volume median particle size of 9.6 $\mu\text{m}$ . A perfume composition for use in fabric softener contained DEQA 19.0, hydrochloric acid 0.02, soil release polymer 0.02, PEG 0.6, perfume 1.0, above polymeric particles 2.0, electrolyte 600 ppm, dye 50 ppm, and water q.s. for balance.				
IC	ICM A61K007-46				
CC	62-5 (Essential Oils and Cosmetics) Section cross-reference(s): 35, 38				
ST	perfume particle acrylate styrene polymer fabric softener				
IT	Particle size Perfumes (perfume polymeric particles)				
IT	Acrylic polymers, biological studies Polymers, biological studies RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (perfume polymeric particles)				
IT	26222-42-4 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (perfume polymeric particles)				
IT	9011-14-7P 51998-24-4P 55972-61-7P 63889-83-8P 72783-16-5P 691367-52-9P 691367-53-0P 691367-54-1P RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (perfume polymeric particles)				
IT	51998-24-4P 55972-61-7P 63889-83-8P 72783-16-5P 691367-52-9P 691367-53-0P RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (perfume polymeric particles)				
RN	51998-24-4 HCPLUS				
CN	2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with methyl 2-methyl-2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)				

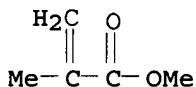
CM 1

CRN 2867-47-2  
 CMF C8 H15 N O2



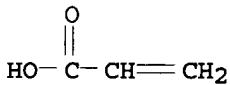
CM 2

CRN 80-62-6  
 CMF C5 H8 O2



CM 3

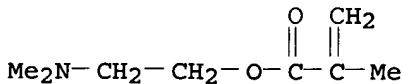
CRN 79-10-7  
 CMF C3 H4 O2



RN 55972-61-7 HCPLUS  
 CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with  
 ethenylbenzene and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

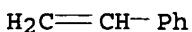
CM 1

CRN 2867-47-2  
 CMF C8 H15 N O2

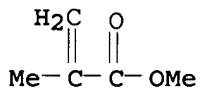


CM 2

CRN 100-42-5  
 CMF C8 H8



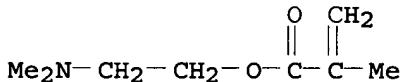
CM 3

CRN 80-62-6  
CMF C5 H8 O2

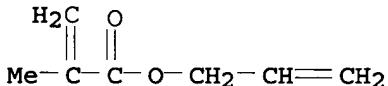
RN 63889-83-8 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with methyl 2-methyl-2-propenoate and 2-propenyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

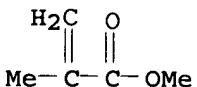
CM 1

CRN 2867-47-2  
CMF C8 H15 N O2

CM 2

CRN 96-05-9  
CMF C7 H10 O2

CM 3

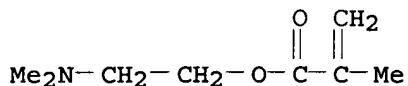
CRN 80-62-6  
CMF C5 H8 O2

RN 72783-16-5 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 2-ethylhexyl 2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

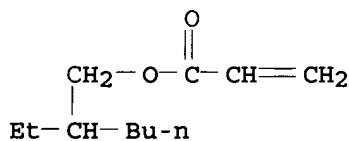
CM 1

CRN 2867-47-2  
 CMF C8 H15 N O2



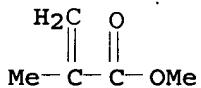
CM 2

CRN 103-11-7  
 CMF C11 H20 O2



CM 3

CRN 80-62-6  
 CMF C5 H8 O2

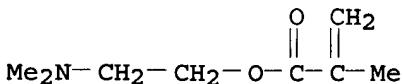


RN 691367-52-9 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1,4-butanediyl di-2-propenoate, ethenol and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

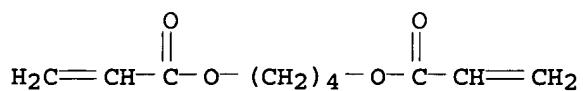
CM 1

CRN 2867-47-2  
 CMF C8 H15 N O2

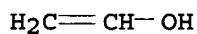


CM 2

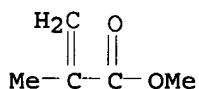
CRN 1070-70-8  
 CMF C10 H14 O4



CM 3

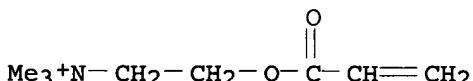
CRN 557-75-5  
CMF C2 H4 O

CM 4

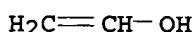
CRN 80-62-6  
CMF C5 H8 O2

RN 691367-53-0 HCPLUS  
 CN Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride,  
 polymer with ethenol and methyl 2-methyl-2-propenoate (9CI) (CA INDEX  
 NAME)

CM 1

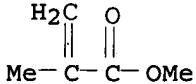
CRN 44992-01-0  
CMF C8 H16 N O2 . Cl● Cl<sup>-</sup>

CM 2

CRN 557-75-5  
CMF C2 H4 O

CM 3

CRN 80-62-6  
 CMF C5 H8 O2



RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 6 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2002:408493 HCAPLUS  
 DN 137:10698  
 TI Cosmetic compositions containing a water soluble polymer in the form of a dispersion  
 IN Giroud, Franck  
 PA L'Oreal, Fr.  
 SO PCT Int. Appl., 34 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002041856	A1	20020530	WO 2001-FR3481	20011109
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	FR 2816833	A1	20020524	FR 2000-15035	20001121
	FR 2816833	B1	20030207		
	AU 2002018345	A5	20020603	AU 2002-18345	20011109
PRAI	FR 2000-15035	A	20001121		
	WO 2001-FR3481	W	20011109		

AB The invention concerns the use of a water soluble polymer in the form of a dispersion obtainable by polymerizing at least a water soluble monomer comprising at least a double bond, in a saline aqueous solution containing at least a dispersing agent consisting of a polyelectrolyte soluble in said saline aqueous solution, and at least an agent preventing viscosity increase. The invention also concerns a cosmetic composition comprising such a polymer and a cosmetic treatment method for keratinous materials using said cosmetic composition A solution containing pyrogallol 2500, p-hydroxybenzoic acid 50 ppm, acryloyloxyethyltrimethylbenzyl ammonium chloride (30 mol % polymer), acryloyloxyethyltrimethylbenzyl ammonium chloride (50 mol % polymer), and acrylamide (20 mol % polymer) 25%, poly(dimethylallylammonium chloride) 1, poly(methacryloyloxy ethyltrimethylammonium chloride) 1, ammonium sulfate 19, water q.s. 100% was heated at 48° for 10 h to obtain a polymer dispersion having particle diameter of 10-20 µm. Formulation of a shampoo containing above polymer 0.2% is disclosed.

IC ICM A61K007-06  
 ICS C08F020-34

CC 62-3 (Essential Oils and Cosmetics)  
ST cosmetic water sol polymer dispersion polyacrylate  
IT Alcohols, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(C1-4; cosmetic compns. containing water soluble polymer in form of  
dispersion)  
IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(Mirasil DM 500000; cosmetic compns. containing water soluble polymer in form  
of dispersion)  
IT Polyelectrolytes  
Surfactants  
(amphoteric; cosmetic compns. containing water soluble polymer in form of  
dispersion)  
IT Polyelectrolytes  
Surfactants  
(anionic; cosmetic compns. containing water soluble polymer in form of  
dispersion)  
IT Polyelectrolytes  
Surfactants  
(cationic; cosmetic compns. containing water soluble polymer in form of  
dispersion)  
IT Betaines  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(coco alkylidimethyl, Dehyton AB 30; cosmetic compns. containing water soluble  
polymer in form of dispersion)  
IT Dispersing agents  
Dyes  
Opacifiers  
Oxidizing agents  
Perfumes  
Polyelectrolytes  
Preservatives  
Shampoos  
Stabilizing agents  
Thickening agents  
(cosmetic compns. containing water soluble polymer in form of dispersion)  
IT Alkanes, biological studies  
Ketones, biological studies  
Paraffin oils  
Polymers, biological studies  
Polyoxyalkylenes, biological studies  
Tannins  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(cosmetic compns. containing water soluble polymer in form of dispersion)  
IT Acrylic polymers, biological studies  
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological  
study); PREP (Preparation); USES (Uses)  
(cosmetic compns. containing water soluble polymer in form of dispersion)  
IT Polyoxyalkylenes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(di-Me, Me hydrogen polysiloxane-, sulfosuccinate, disodium salt;  
cosmetic compns. containing water soluble polymer in form of dispersion)  
IT Polysiloxanes, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(di-Me, Me hydrogen, polyoxyalkylene-, sulfosuccinate, disodium salt;  
cosmetic compns. containing water soluble polymer in form of dispersion)  
IT Anions  
(divalent; cosmetic compns. containing water soluble polymer in form of  
dispersion)

IT Viscosity  
(enhancers; cosmetic compns. containing water soluble polymer in form of dispersion)

IT Fatty acids, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(esters; cosmetic compns. containing water soluble polymer in form of dispersion)

IT Surfactants  
(ionic; cosmetic compns. containing water soluble polymer in form of dispersion)

IT Hair preparations  
(lotions, wave-setting; cosmetic compns. containing water soluble polymer in form of dispersion)

IT Hair preparations  
(lotions; cosmetic compns. containing water soluble polymer in form of dispersion)

IT Hair preparations  
(mousses; cosmetic compns. containing water soluble polymer in form of dispersion)

IT Solvents  
(organic; cosmetic compns. containing water soluble polymer in form of dispersion)

IT Hair preparations  
(permanent wave; cosmetic compns. containing water soluble polymer in form of dispersion)

IT Carboxylic acids, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(polycarboxylic, salts; cosmetic compns. containing water soluble polymer in form of dispersion)

IT Carboxylic acids, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(polycarboxylic; cosmetic compns. containing water soluble polymer in form of dispersion)

IT Alcohols, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(polyhydric; cosmetic compns. containing water soluble polymer in form of dispersion)

IT Phenols, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(polyphenols, nonpolymeric; cosmetic compns. containing water soluble polymer in form of dispersion)

IT Hair preparations  
(sprays; cosmetic compns. containing water soluble polymer in form of dispersion)

IT Fats and Glyceridic oils, biological studies  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(vegetable; cosmetic compns. containing water soluble polymer in form of dispersion)

IT 81859-24-7, JR 400  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(JR 400; cosmetic compns. containing water soluble polymer in form of dispersion)

IT 69-72-7, Salicylic acid, biological studies 87-66-1, Pyrogallol  
87-69-4, Tartaric acid, biological studies 88-99-3, Phthalic acid,  
biological studies 99-06-9, m-Hydroxybenzoic acid, biological studies  
99-96-7, p-Hydroxybenzoic acid, biological studies 108-46-3, Resorcinol,  
biological studies 110-71-4 124-04-9, Adipic acid, biological studies  
144-62-7, Oxalic acid, biological studies 149-91-7, Galli cacid,  
biological studies 299-27-4, Potassium gluconate 526-95-4, Gluconic  
acid 526-95-4D, Gluconic acid, amine derivs. 527-07-1, Sodium

gluconate 6915-15-7, Malic acid 7487-88-9, Magnesium sulfate, biological studies 7681-38-1, Sodium hydrogen sulfate 7757-82-6, Sodium sulfate, biological studies 7783-20-2, Ammonium sulfate, biological studies 7803-63-6, Ammonium hydrogen sulfate 9004-82-4, Polyoxyethylene Sodium lauryl ether sulfate 10028-26-9, Magnesium hydrogen sulfate 10043-01-3, Aluminum sulfate 19222-41-4, Ammonium gluconate 24738-38-3 25212-88-8, Luvimer MAE 25322-68-3, Polyethylene glycol 53633-54-8, Gafquat 734 68134-63-4, Aristoflex A 73506-93-1, Diethoxyethane 92183-41-0, Celquat LOR 117522-93-7, Kytamer PC 145686-74-4, Dow Corning Q 2-5220 203341-07-5, Dow Corning 939 431982-24-0, Mackanate DC 50  
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
 (cosmetic compns. containing water soluble polymer in form of dispersion)

IT 69418-26-4P 108388-79-0P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (cosmetic compns. containing water soluble polymer in form of dispersion)

IT 824-46-4, Methoxyhydroquinone

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (cosmetic compns. containing water soluble polymer in form of dispersion)

IT 69418-26-4P 108388-79-0P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (cosmetic compns. containing water soluble polymer in form of dispersion)

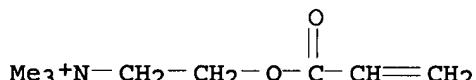
RN 69418-26-4 HCPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 44992-01-0

CMF C8 H16 N O2 . Cl

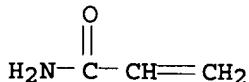


● Cl<sup>-</sup>

CM 2

CRN 79-06-1

CMF C3 H5 N O

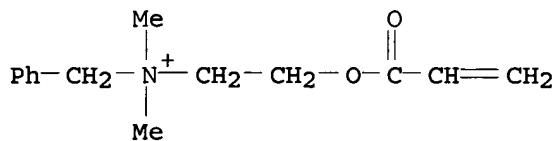


RN 108388-79-0 HCPLUS

CN Benzenemethanaminium, N,N-dimethyl-N-[2-[(1-oxo-2-propenyl)oxy]ethyl]-, chloride, polymer with 2-propenamide and N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]ethanaminium chloride (9CI) (CA INDEX NAME)

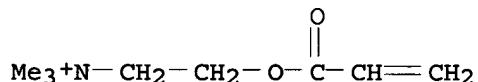
CM 1

CRN 46830-22-2  
 CMF C14 H20 N O2 . Cl

● Cl<sup>-</sup>

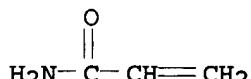
CM 2

CRN 44992-01-0  
 CMF C8 H16 N O2 . Cl

● Cl<sup>-</sup>

CM 3

CRN 79-06-1  
 CMF C3 H5 N O



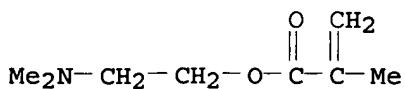
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 7 OF 15 HCPLUS COPYRIGHT 2006 ACS on STN  
 AN 2001:31548 HCPLUS  
 DN 134:86650  
 TI Preparation of odor-free vinyl caprolactam-based polymers by suspension polymerization in water  
 IN Chuang, Jui-Chang; Drzewinski, Michael A.  
 PA ISP Investments Inc., USA  
 SO PCT Int. Appl., 24 pp.  
 CODEN: PIXXD2  
 DT Patent

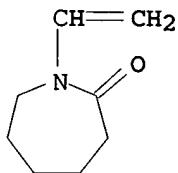
LA English

FAN.CNT 1

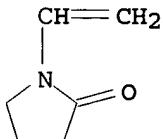
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001002450	A1	20010111	WO 2000-US9597	20000411
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	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 6225429	B1	20010501	US 1999-346213	19990701
	AU 2000042273	A5	20010122	AU 2000-42273	20000411
	JP 2003504431	T2	20030204	JP 2001-508237	20000411
PRAI	US 1999-346213	A	19990701		
	WO 2000-US9597	W	20000411		
AB	Vinyl caprolactam-based polymer is prepared by suspension polymerizing monomers (e.g., vinyl caprolactam and vinylpyrrolidone) in aqueous medium in the absence of a protective colloid, wherein polymer formed at an early stage of the polymerization functions as a dispersing agent to maintain polymer particles suspended in water throughout the polymerization. The polymers are purified with hydrogen peroxide to remove residual monomers.				
IC	ICM C08F226-06				
	ICS C08F226-10; C08F220-04; C08L029-02				
CC	35-4 (Chemistry of Synthetic High Polymers)				
ST	vinyl caprolactam polymer prep suspension polymn; odor free vinylpyrrolidone vinyl caprolactam copolymer				
IT	Polymerization (suspension; preparation of odor-free vinyl caprolactam-based polymers by suspension polymerization in water)				
IT	51987-20-3P 102972-64-5P, Dimethylaminoethyl methacrylate-vinylcaprolactam-vinylpyrrolidone copolymer	146876-35-9P			
	180005-72-5P 221683-65-4P 318249-01-3P				
IT	RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (preparation of odor-free vinyl caprolactam-based polymers by suspension polymerization in water)				
IT	102972-64-5P, Dimethylaminoethyl methacrylate-vinylcaprolactam-vinylpyrrolidone copolymer				
	RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (preparation of odor-free vinyl caprolactam-based polymers by suspension polymerization in water)				
RN	102972-64-5 HCPLUS				
CN	2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenylhexahydro-2H-azepin-2-one and 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)				
CM	1				
CRN	2867-47-2				
CMF	C8 H15 N O2				



CM 2

CRN 2235-00-9  
CMF C8 H13 N O

CM 3

CRN 88-12-0  
CMF C6 H9 N ORE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 8 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2001:28517 HCAPLUS  
 DN 134:102568  
 TI Microcapsule compositions and their use in detergents and cleaning agents  
 IN Boeckh, Dieter; Jahns, Ekkehard; Bertleff, Werner; Neumann, Peter  
 PA BASF A.-G., Germany  
 SO Ger. Offen., 12 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19932144	A1	20010111	DE 1999-19932144	19990709
WO 2001004257	A1	20010118	WO 2000-EP6458	20000707
W: JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 1194521	A1	20020410	EP 2000-944015	20000707
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2003504490	T2	20030204	JP 2001-509461	20000707

US 6849591	B1	20050201	US 2002-19312	20020109
PRAI DE 1999-19932144	A	19990709		
WO 2000-EP6458	W	20000707		

AB The title compns. comprise microcapsules with a nonpolar core containing, e.g., perfumes, bleach activators, defoamers, etc., and a skin containing ethylenically unsatd. (co)polymers and polymers made of monomers capable of generating anionic or cationic groups in basic or acidic environment. The generation of ionic groups destabilizes the microcapsule skin and enables a pH-controlled release of the microcapsule content. For example, an oil-in-water emulsion prepared by rapid stirring of a mixture of poly(vinyl alc.) (88%-saponified, average mol. weight 128,000) 12.5, poly(vinylpyrrolidone) (K-value 90) 12.5, paraffin oil 75, essential oil (fir) 75, Me methacrylate 4, methacrylic anhydride 3.5, tert-Bu perpivalate 0.1 and H<sub>2</sub>O 499 g was heated with stirring to 60° over 1.5 h and to 80° over 3 h and cooled to give dispersion with particles having diameter 2-8 µm. Spreading the dispersion on a glass plate gave a film with a faint spruce odor which was intensified by immersing the plate in aqueous NaOH solution at pH 10.

IC ICM C11D017-00

ICS C11D003-50; C11D001-94; C11D001-83

CC 46-6 (Surface Active Agents and Detergents)

Section cross-reference(s): 38

ST perfume microencapsulation polymer skin acid base sensitivity; microcapsule skin methacrylate polymer dissolvn perfume release; methacrylic anhydride crosslinker microcapsule skin hydrolysis perfume release

IT Essential oils

RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(fir; microcapsule compns. and their use in detergents and cleaning agents containing)

IT Detergents

(microcapsule compns. and their use in cleaning agents and)

IT Microcapsules

(microcapsule compns. and their use in detergents and cleaning agents)

IT Perfumes

Surfactants

(microcapsule compns. and their use in detergents and cleaning agents containing)

IT 9002-89-5, Poly(vinyl alcohol)

RL: TEM (Technical or engineered material use); USES (Uses)  
(88%-saponified; microcapsule compns. and their use in detergents and cleaning agents)

IT 27027-16-3P, Diethylaminoethyl methacrylate-Methyl methacrylate copolymer 29856-04-0P, Methacrylic anhydride-Methyl methacrylate copolymer

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(microcapsule compns. and their use in detergents and cleaning agents)

IT 9003-39-8, Poly(vinylpyrrolidone)

RL: TEM (Technical or engineered material use); USES (Uses)  
(microcapsule compns. and their use in detergents and cleaning agents)

IT 27027-16-3P, Diethylaminoethyl methacrylate-Methyl methacrylate copolymer

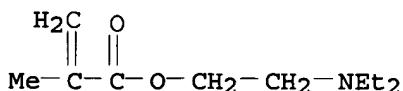
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(microcapsule compns. and their use in detergents and cleaning agents)

RN 27027-16-3 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(diethylamino)ethyl ester, polymer with methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

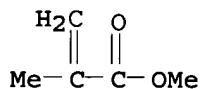
CM 1

CRN 105-16-8  
 CMF C10 H19 N O2



CM 2

CRN 80-62-6  
 CMF C5 H8 O2



L30 ANSWER 9 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1999:583117 HCAPLUS

DN 131:219018

TI Thickeners for perfume compositions

IN Tejima, Hiroshi

PA Shiseido Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11246382	A2	19990914	JP 1998-71318	19980305
PRAI	JP 1998-71318		19980305		
AB Perfume compns. in the form of liqs. or gels, for application to the skin comprise (1) a cationic thickener, (2) an agent selected from the group consisting of hydroxypropyl cellulose, hydroxyethyl cellulose, Me cellulose, and xanthan gum, (3) perfume components, (4) ethanol, and (5) water. The composition further comprises powders of polyamides, silica, polyethylene, and/or starch. N,N-dimethylaminoethyl methacrylate-N-vinylpyrrolidone-stearyl acrylate-tripropylene glycol diacrylate copolymer was prepared A skin composition was formulated containing ion-exchanged water 20, perfumes 3.8, the above polymer 0.7, Me cellulose 0.1, lactic acid 0.3, and ethanol q.s. to 100 %.					
IC	ICM A61K007-46				
	ICS C11B009-00				
CC	62-4 (Essential Oils and Cosmetics)				
ST	thickener polyacrylate cellulose ether perfume				
IT	Cosmetics				
	Perfumes				
	Thickening agents				
	(perfume compns. containing thickeners and powders)				
IT	Polyamides, biological studies				
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES				

## (Uses)

(powders; perfume compns. containing thickeners and powders)

IT 9004-62-0, Hydroxyethyl cellulose 9004-64-2, Hydroxypropyl cellulose  
 9004-67-5, Methyl cellulose 11138-66-2, Xanthan gum  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(perfume compns. containing thickeners and powders)

IT 160364-67-0P  
 RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); BIOL  
 (Biological study); PREP (Preparation); USES (Uses)  
 (perfume compns. containing thickeners and powders)

IT 7631-86-9, Silica, biological studies 9002-88-4, Polyethylene  
 9005-25-8, Starch, biological studies  
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
 (Uses)

(powders; perfume compns. containing thickeners and powders)

IT 160364-67-0P  
 RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); BIOL  
 (Biological study); PREP (Preparation); USES (Uses)  
 (perfume compns. containing thickeners and powders)

RN 160364-67-0 HCPLUS

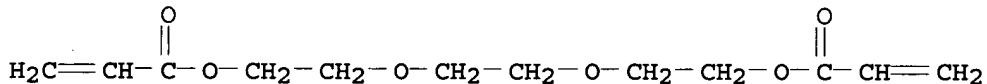
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with  
 1-ethenyl-2-pyrrolidinone, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-  
 ethanediyl)] di-2-propenoate and octadecyl 2-propenoate (9CI) (CA INDEX  
 NAME)

CM 1

CRN 42978-66-5

CMF C15 H24 O6

CCI IDS

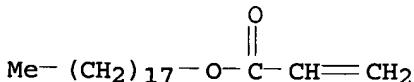


3 ( D1-Me )

CM 2

CRN 4813-57-4

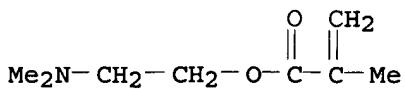
CMF C21 H40 O2



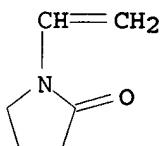
CM 3

CRN 2867-47-2

CMF C8 H15 N O2



CM 4

CRN 88-12-0  
CMF C6 H9 N O

L30 ANSWER 10 OF 15 HCPLUS COPYRIGHT 2006 ACS on STN  
 AN 1998:719154 HCPLUS  
 DN 129:331177  
 TI Purification of vinyl lactam polymers by removal of vinyl lactam monomers  
 IN Liu, Kou-chang; Anderson, Lowell R.; Ginde, Rajiv; Rocafort, Colleen M.

PA Isp Investments Inc, USA

SO U.S., 5 pp.

CODEN: USXXAM

DT Patent

LA English

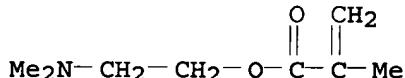
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5830964	A	19981103	US 1997-993908	19971218
	WO 9931152	A1	19990624	WO 1998-US23325	19981102
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9912995	A1	19990705	AU 1999-12995	19981102
PRAI	US 1997-993908	A	19971218		
	WO 1998-US23325	W	19981102		
AB	The title process comprises: (a) adjusting the concentration of a N-vinyl lactam polymer containing an excessive amount of residual vinyl lactam monomer to 15-40% in an organic solvent to form a solution; (b) contacting the resulting solution with 0.5-5%, based on lactam polymer, of porous particles of a resin containing a plurality of functional sulfonic acid and/or carboxylic acid sites, the resin being substantially free of contamination and having a particle size of 5-500 mesh; (c) agitating the lactam polymer in contact with the resin at a temperature of 25-125° for 0.5-10 h; (d) separating the resin with absorbed residual monomer from the lactam polymer solution and (e) recovering the resulting substantially pure N-vinyl lactam polymer. Substantially colorless and odorless vinyl lactam polymers containing less than 100 ppm residual vinyl pyrrolidone and less than 1000 ppm vinyl caprolactam monomers are prepared				

IC ICM C08F226-06  
 ICS C08F226-10; C08F222-06; C08F220-56; C08F220-04; C08F220-18;  
 C08F220-21  
 INCL 526264000  
 CC 35-4 (Chemistry of Synthetic High Polymers)  
 ST vinyl lactam polymer purifn absorbent; sulfonic acid group polymer  
 absorbent  
 IT Absorbents  
 (purification of vinyl lactam polymers by removal of vinyl lactam monomers)  
 IT 9037-24-5, AMBERLYST 15 39389-20-3, Divinylbenzene-styrenesulfonic acid  
 copolymer  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (purification of vinyl lactam polymers by removal of vinyl lactam monomers)  
 IT 9003-39-8P, N-Vinyl pyrrolidone polymer 25086-89-9P, N-Vinyl  
 pyrrolidone-vinyl acetate copolymer 25189-83-7P, N-Vinyl caprolactam  
 polymer 102972-64-5P, Dimethyl aminoethyl methacrylate N-vinyl  
 caprolactam N-vinyl pyrrolidone copolymer 180005-72-5P  
 RL: PUR (Purification or recovery); PREP (Preparation)  
 (purification of vinyl lactam polymers by removal of vinyl lactam monomers)  
 IT 88-12-0, processes 2235-00-9, N-Vinyl caprolactam  
 RL: REM (Removal or disposal); PROC (Process)  
 (purification of vinyl lactam polymers by removal of vinyl lactam monomers)  
 IT 102972-64-5P, Dimethyl aminoethyl methacrylate N-vinyl caprolactam  
 N-vinyl pyrrolidone copolymer  
 RL: PUR (Purification or recovery); PREP (Preparation)  
 (purification of vinyl lactam polymers by removal of vinyl lactam monomers)  
 RN 102972-64-5 HCPLUS  
 CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with  
 1-ethenylhexahydro-2H-azepin-2-one and 1-ethenyl-2-pyrrolidinone (9CI)  
 (CA INDEX NAME)

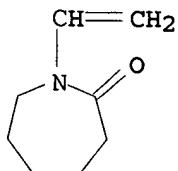
CM 1

CRN 2867-47-2  
 CMF C8 H15 N O2



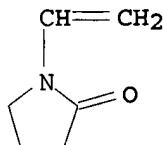
CM 2

CRN 2235-00-9  
 CMF C8 H13 N O



CM 3

CRN 88-12-0  
 CMF C6 H9 N O



RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 11 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1998:479560 HCAPLUS  
 DN 129:123235  
 TI Polymer particles having surface properties and methods of  
 making them  
 IN Grey, Bryan David; Dungworth, Howard Roger; Stockwell, John Robert  
 PA Allied Colloids Ltd., UK  
 SO PCT Int. Appl., 48 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9828339	A1	19980702	WO 1997-GB3531	19971223
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2277143	AA	19980702	CA 1997-2277143	19971223
	AU 9853319	A1	19980717	AU 1998-53319	19971223
	ZA 9711578	A	19990623	ZA 1997-11578	19971223
	ZA 9711582	A	19990623	ZA 1997-11582	19971223
	ZA 9711589	A	19990623	ZA 1997-11589	19971223
	EP 950070	A1	19991020	EP 1997-950317	19971223
	EP 950070	B1	20020206		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
	US 6024943	A	20000215	US 1997-997380	19971223
	US 6194375	B1	20010227	US 1997-996721	19971223
	JP 2001507059	T2	20010529	JP 1998-528555	19971223
	AT 213001	E	20020215	AT 1997-950317	19971223
	PT 950070	T	20020628	PT 1997-950317	19971223
	ES 2170969	T3	20020816	ES 1997-950317	19971223
PRAI	EP 1996-309466	A	19961223		
	WO 1997-GB3531	W	19971223		

AB Polymer particles that have cores based on polymers of hydrophobic (meth)acrylate esters of alcs. having  $\geq 3$  C atoms and surfaces with OH groups due to the presence of  $\geq 1$  polymer different than the core polymer are manufactured suspension polymerization in the presence of a dispersion stabilizer. This stabilizer can be any suitable polymer that has free OH groups for incorporation of the OH groups into the surface of the particles. The process results in polymers

of average particle size 50-150  $\mu$ m and reduced levels of undesired polymer emulsion or undersized particles. The polymer particles may have cationic groups due to cationic monomers present in the manufacture of the cores. The particles are particularly useful for absorbing water insol. active ingredients, such as insecticides, insect repellents, fragrances, pheromones for subsequent slow release. The cationic surface character of polymer particles makes them especially useful for forming stable dispersions or slurries in active concs. such as perfume bases or detergent concs. Furthermore these dispersions or slurries remain stable and substantially free of agglomerates. The particles containing active ingredient readily associate with fabrics such as cotton, wool and viscose where the active ingredient is released in a controlled fashion over several days. Typical beads with particle size >125  $\mu$ m were manufactured by radical suspension-polymerization of 70 parts iso-Bu methacrylate with 1.8 parts 1,6-hexanediol diacrylate in the presence of Natrosol 250L (hydroxyethyl cellulose).

IC ICM C08F002-20

ICS C11D017-00; A01N025-10

CC 37-3 (Plastics Manufacture and Processing)

Section cross-reference(s): 5, 46

ST methacrylate polymer bead hydroxy group surface; perfume slow release carrier polymer bead; pheromone slow release carrier polymer bead; fragrance slow release carrier polymer bead; insect repellent slow release carrier bead; insecticide slow release carrier polymer bead; hydroxyethyl cellulose surface methacrylate polymer bead; hexanediol diacrylate copolymer bead manuf; isobutyl methacrylate copolymer bead manuf; cationic group acrylate polymer bead; absorbent polymer particle active substance

IT Absorbents

Crosslinking agents

Insecticides

Particles

Perfumes

Sunscreens

(polymer particles having hydrophobic (meth)acrylate ester cores and surfaces having hydroxy and(or) cationic groups for absorption of active substances for slow release)

IT Pyrethrins

RL: NUU (Other use, unclassified); USES (Uses)

(polymer particles having hydrophobic (meth)acrylate ester cores and surfaces having hydroxy and(or) cationic groups for absorption of active substances for slow release)

IT 17511-60-3

RL: NUU (Other use, unclassified); USES (Uses)

(Florocyclene, perfume; polymer particles having hydrophobic (meth)acrylate ester cores and surfaces having hydroxy and(or) cationic groups for absorption of active substances for slow release)

IT 563-12-2, Ethion 52315-07-8, Cypermethrin

RL: NUU (Other use, unclassified); USES (Uses)

(insecticide; polymer particles having hydrophobic (meth)acrylate ester cores and surfaces having hydroxy and(or) cationic groups for absorption of active substances for slow release)

IT 123-11-5, Anisaldehyde, uses 151-05-3, Dimethylbenzylcarbinyl acetate

21145-77-7, Tonalid 53219-21-9, Dihydromyrcenol

RL: NUU (Other use, unclassified); USES (Uses)

(perfume; polymer particles having hydrophobic (meth)acrylate ester cores and surfaces having hydroxy and(or) cationic groups for absorption of active substances for slow release)

IT 68540-72-7P, Hydroxypropyl methacrylate-isobutyl methacrylate copolymer  
 209683-42-1P, 1,6-Hexanediol diacrylate-isobutyl methacrylate copolymer  
**210230-13-0P** 210230-15-2P  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (polymer particles having hydrophobic (meth)acrylate ester cores and surfaces having hydroxy and(or) cationic groups for absorption of active substances for slow release)

IT 93-15-2, Methyl eugenol 12002-53-8, Trimedlure 50933-33-0, Gossyplure  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (polymer particles having hydrophobic (meth)acrylate ester cores and surfaces having hydroxy and(or) cationic groups for absorption of active substances for slow release)

IT 9002-89-5, Gohsenol AH 22 9003-20-7D, Polyvinyl acetate, partially hydrolyzed 9004-62-0, Natrosol 250L 124364-09-6, Gohsenol KH-17 155665-04-6 210230-12-9  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (polymer particles having hydrophobic (meth)acrylate ester cores and surfaces having hydroxy and(or) cationic groups for absorption of active substances for slow release)

IT 98-01-1, Furfural, uses  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (soil sterilant; polymer particles having hydrophobic (meth)acrylate ester cores and surfaces having hydroxy and(or) cationic groups for absorption of active substances for slow release)

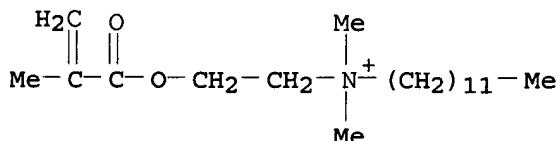
IT **210230-13-0P**  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (polymer particles having hydrophobic (meth)acrylate ester cores and surfaces having hydroxy and(or) cationic groups for absorption of active substances for slow release)

RN 210230-13-0 HCAPLUS  
 CN 1-Dodecanaminium, N,N-dimethyl-N-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-, bromide, polymer with 1,4-butanediyl di-2-propenoate, ethenol and 2-methylpropyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 96526-35-1

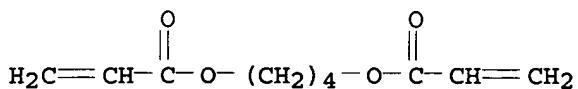
CMF C20 H40 N O2 . Br

● Br<sup>-</sup>

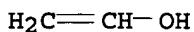
CM 2

CRN 1070-70-8

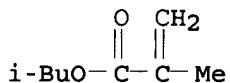
CMF C10 H14 O4



CM 3

CRN 557-75-5  
CMF C2 H4 O

CM 4

CRN 97-86-9  
CMF C8 H14 O2RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 12 OF 15 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1997:739720 HCAPLUS  
 DN 128:53036  
 TI Hair cosmetics  
 IN Shihō, Koji; Kawahashi, Nobuo; Morikawa, Akihiko; Bessho, Nobuo  
 PA Japan Synthetic Rubber Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 09295920	A2	19971118	JP 1996-132842	19960430
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PRAI JP 1996-132842 19960430

AB Hair cosmetics showing excellent film-forming, protein-adsorbing and sebum-absorbing properties comprise **particles** prepared from polyorganosiloxanes and radical polymerizable monomers such as Bu acrylate and dimethylaminoethyl methacrylate. A paste hair cosmetic contained the **particles** 15, CM-cellulose 0.5, ethanol 30, **perfumes** 0.1 and purified water to 100 weight%.

IC ICM A61K007-06

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 38

ST hair cosmetic **particle** polyorganosiloxane acrylic polymer

IT Hair preparations

(conditioners; hair cosmetics containing **particles** prepared from polyorganosiloxanes and radical polymerizable monomers)

IT Hair preparations

**Particles**

(hair cosmetics containing **particles** prepared from polyorganosiloxanes and radical polymerizable monomers)

IT Acrylic polymers, biological studies

RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)

(hair cosmetics containing **particles** prepared from polyorganosiloxanes and radical polymerizable monomers)

IT Siloxanes (nonpolymeric)

RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)

(modified polyorgano-; hair cosmetics containing **particles** prepared from polyorganosiloxanes and radical polymerizable monomers)

IT 556-67-2DP, Octamethylcyclotetrasiloxane, reaction products with

p-vinylphenylmethyldimethoxysilane 17998-86-6DP, p-Vinylphenylmethyldimethoxysilane, reaction products with octamethylcyclotetrasiloxane 26355-01-1P, 2-Hydroxyethyl methacrylate-methyl methacrylate copolymer 30606-45-2P, Butyl acrylate-dimethylaminoethyl methacrylate copolymer 68183-98-2P, Ethylene glycol-methyl methacrylate copolymer

RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)

(hair cosmetics containing **particles** prepared from polyorganosiloxanes and radical polymerizable monomers)

IT 30606-45-2P, Butyl acrylate-dimethylaminoethyl methacrylate copolymer

RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)

(hair cosmetics containing **particles** prepared from polyorganosiloxanes and radical polymerizable monomers)

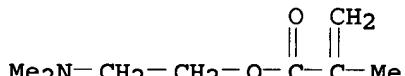
RN 30606-45-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with butyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 2867-47-2

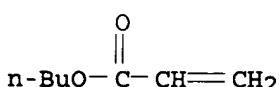
CMF C8 H15 N O2



CM 2

CRN 141-32-2

CMF C7 H12 O2



DN 126:297485  
 TI Long-lasting perfume gels  
 IN Hanada, Takuya  
 PA Shiseido Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 12 pp.  
 CODEN: JKXXAF

DT Patent  
 LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 09067239	A2	19970311	JP 1995-247040	19950901
PRAI JP 1995-247040		19950901		

AB Long-lasting perfume gels comprise cationic thickeners (such as N,N-dimethylaminoethyl methacrylate-N-vinylpyrrolidone-stearyl acrylate-tripropylene glycol diacrylate copolymer) 0.05-10.0, perfumes 0.5-30.0, water 20.0-99.0 and ethanol 0.1-79.0 weight%.

IC ICM A61K007-46

CC 62-5 (Essential Oils and Cosmetics)

Section cross-reference(s): 38

ST perfume gel cationic thickener copolymer

IT Thickening agents  
 (cationic; long-lasting perfume gels)

IT Cosmetics  
 (gels; long-lasting perfume gels)

IT Perfumes  
 (long-lasting perfume gels)

IT 64-17-5P, Ethanol, biological studies 7732-18-5P, Water, biological studies 187266-54-2P  
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (long-lasting perfume gels)

IT 187266-54-2P  
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (long-lasting perfume gels)

RN 187266-54-2 HCPLUS

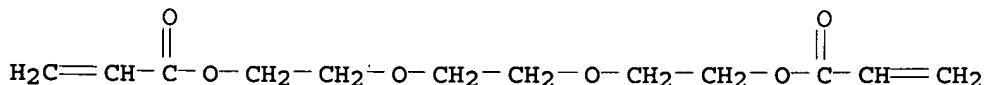
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone and (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] di-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 42978-66-5

CMF C15 H24 O6

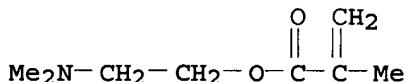
CCI IDS



3 ( D1-Me )

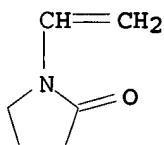
CM 2

CRN 2867-47-2  
 CMF C8 H15 N O2



CM 3

CRN 88-12-0  
 CMF C6 H9 N O



L30 ANSWER 14 OF 15 HCPLUS COPYRIGHT 2006 ACS on STN

AN 1993:567494 HCPLUS

DN 119:167494

TI Water-base nail lacquers containing aqueous composite polymer emulsions  
 IN Sawada, Michitaka; Tsutsumi, Takehiro; Hosokawa, Hitoshi; Sugawara, Susumu  
 PA Kao Corp, Japan  
 SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 05148122	A2	19930615	JP 1991-314460	19911128
PRAI JP 1991-314460		19911128		
AB Nail lacquers contain 5-60 weight% (as solid) aqueous composite polymer emulsions, in which polymer particles with different chemical compns. form multilayer structure and the inner layers comprise fluoropolymers. The nail lacquers are not inflammable, excellent in staining resistance, gloss, adherence, water resistance, and film strength, and have no offensive odor. A mixture of 2,2,3,3-tetrafluoropropyl methacrylate, tert-Bu methacrylate, and NC(CHMeCH <sub>2</sub> ) <sub>2</sub> N:N(CH <sub>2</sub> CHMe) <sub>2</sub> CN was added dropwise to an aqueous acrylic acid-Bu acrylate-Me methacrylate copolymer Et <sub>3</sub> N salt (preparation given) over 1 h and the reaction mixture was further treated with an aqueous K <sub>2</sub> S <sub>2</sub> O <sub>8</sub> at 70° for 6 h, and evaporated to give an aqueous complex polymer emulsion (solid content 35%). A nail polish containing the polymer emulsion 100, red pigment R-226 3, H <sub>2</sub> O 10, carbitol 0-10, di-Et phthalate 0-10, perfume 0.1, antiseptic, and silicone antifoamer was prepared				
IC ICM A61K007-043				
CC 62-4 (Essential Oils and Cosmetics)				
ST nail lacquer aq polymer emulsion				
IT Cosmetics (nail lacquers, aqueous polymer emulsions containing composite polymer particles with fluoropolymer inner layers for)				
IT 108705-55-1P	150119-92-9P	150152-21-9P		

RL: PREP (Preparation)  
 (preparation and composite polymer emulsions from aqueous acrylic polymer and,  
 for nail lacquers)

IT 55067-89-5P, Acrylic acid-butyl acrylate-methyl methacrylate copolymer  
 triethylamine salt 143382-55-2P 150119-91-8P

RL: PREP (Preparation)  
 (preparation of and composite polymer emulsions from fluoropolymer and, for  
 aqueous nail lacquers)

IT 143382-55-2P 150119-91-8P

RL: PREP (Preparation)  
 (preparation of and composite polymer emulsions from fluoropolymer and, for  
 aqueous nail lacquers)

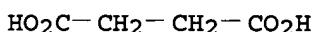
RN 143382-55-2 HCPLUS

CN Butanedioic acid, compd. with butyl 2-propenoate polymer with  
 2-(dimethylamino)ethyl 2-methyl-2-propenoate and methyl  
 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 110-15-6

CMF C4 H6 O4



CM 2

CRN 35166-02-0

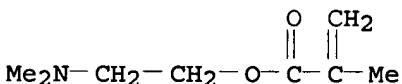
CMF (C8 H15 N O2 . C7 H12 O2 . C5 H8 O2)x

CCI PMS

CM 3

CRN 2867-47-2

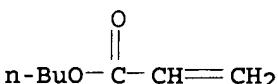
CMF C8 H15 N O2



CM 4

CRN 141-32-2

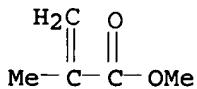
CMF C7 H12 O2



CM 5

CRN 80-62-6

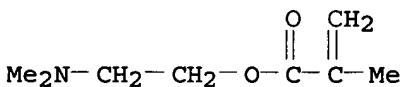
CMF C5 H8 O2



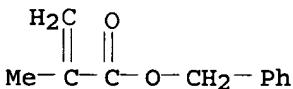
RN 150119-91-8 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with dodecyl 2-methyl-2-propenoate and phenylmethyl 2-methyl-2-propenoate (9CI)  
(CA INDEX NAME)

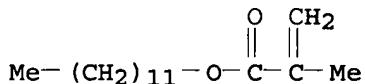
CM 1

CRN 2867-47-2  
CMF C8 H15 N O2

CM 2

CRN 2495-37-6  
CMF C11 H12 O2

CM 3

CRN 142-90-5  
CMF C16 H30 O2

L30 ANSWER 15 OF 15 HCPLUS COPYRIGHT 2006 ACS on STN

AN 1993:175520 HCPLUS

DN 118:175520

TI Aqueous nail lacquers containing polymer emulsions

IN Igarashi, Tadashi; Sugawara, Susumu; Yoshimatsu, Akira

PA Kao Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

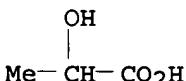
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 04297408	A2	19921021	JP 1991-62912	19910327
PRAI JP 1991-62912		19910327		
AB	Aqueous nail lacquers contain 5-60 weight% (as solid) aqueous composite polymer emulsions comprising ≥2 layers of polymer particles having different chemical compns. and crosslinked polymers at the innermost layers. A nail lacquer containing aqueous composite polymer emulsions (solid content 35%) (containing Me methacrylate-Bu acrylate-acrylic acid copolymer Et <sub>3</sub> N salt as the inner layer and iso-Bu methacrylate-divinylbenzene copolymer as the outer layer) (preparation given) 100, R-226 (red pigment) 3, H <sub>2</sub> O 10, carbitol 0-10, di-Et phthalate 0-10, perfume 0.1 weight part, antiseptic, and silicone antifoamer was formulated. The nail lacquer showed good drying property, gloss, adhesion, water-resistance, abrasion-resistance, and odor.			
IC	ICM A61K007-043			
CC	62-4 (Essential Oils and Cosmetics)			
ST	nail lacquer aq polymer emulsion			
IT	Cosmetics (nail lacquers, containing aqueous composite polymer emulsions)			
IT	9003-70-7P, Divinylbenzene-styrene copolymer 55067-89-5P 100226-43-5P 143453-06-9P 146673-81-6P			
RL: PREP (Preparation)	(preparation of, nail lacquers containing)			
IT	143453-06-9P			
RL: PREP (Preparation)	(preparation of, nail lacquers containing)			
RN	143453-06-9 HCAPLUS			
CN	2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with ethyl 2-propenoate and methyl 2-methyl-2-propenoate, 2-hydroxypropanoate (9CI) (CA INDEX NAME)			
CM	1			
CRN	50-21-5			
CMF	C <sub>3</sub> H <sub>6</sub> O <sub>3</sub>			

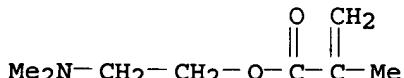


CM 2

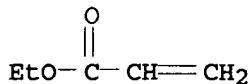
CRN 26316-50-7  
 CMF (C<sub>8</sub> H<sub>15</sub> N O<sub>2</sub> . C<sub>5</sub> H<sub>8</sub> O<sub>2</sub> . C<sub>5</sub> H<sub>8</sub> O<sub>2</sub>)<sub>x</sub>  
 CCI PMS

CM 3

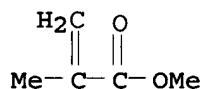
CRN 2867-47-2  
 CMF C<sub>8</sub> H<sub>15</sub> N O<sub>2</sub>



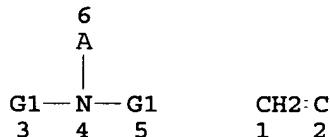
CM 4

CRN 140-88-5  
CMF C5 H8 O2

CM 5

CRN 80-62-6  
CMF C5 H8 O2

=> => D QUE L31  
 L5 SCR 2043  
 L7 STR



Ak @7

VAR G1=7/H  
 NODE ATTRIBUTES:  
 NSPEC IS RC AT 6  
 CONNECT IS M2 RC AT 2  
 CONNECT IS M2 RC AT 6  
 CONNECT IS E1 RC AT 7  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 7

STEREO ATTRIBUTES: NONE  
 L10 80650 SEA FILE=REGISTRY SSS FUL L7 AND L5  
 L11 STR

```

10
O
|||
C 9
}
O 8
}
CH2 7
}
CH2 6
}
G1~~N~~G1      CH2:C
3   4   5       1   2

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VAR G1=H/AK

NODE ATTRIBUTES:

CONNECT IS M2 RC AT 2

CONNECT IS M3 RC AT 9

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L13	19979 SEA FILE=REGISTRY SUB=L10 SSS FUL L11
L14	7942 SEA FILE=REGISTRY ABB=ON L13 AND 1-3/NC
L15	13527 SEA FILE=HCAPLUS ABB=ON L14
L16	4584 SEA FILE=HCAPLUS ABB=ON L15 (L) PREP/RL
L17	3 SEA FILE=HCAPLUS ABB=ON L16 (L) PERFUM?
L20	19596 SEA FILE=HCAPLUS ABB=ON L13
L21	7003 SEA FILE=HCAPLUS ABB=ON L20 (L) PREP/RL
L22	4 SEA FILE=HCAPLUS ABB=ON L21 (L) PERFUM?
L23	69 SEA FILE=HCAPLUS ABB=ON L21 AND PERFUM?
L24	61 SEA FILE=HCAPLUS ABB=ON L23 AND COSMETIC?/SC, SX
L26	2 SEA FILE=HCAPLUS ABB=ON L21 AND PERFUM? (3A) PARTICL?
L27	9 SEA FILE=HCAPLUS ABB=ON L23 AND PARTICLE?
L28	89 SEA FILE=HCAPLUS ABB=ON L21 AND (PERFUM? OR SCENT? OR ODOR?)
L29	12 SEA FILE=HCAPLUS ABB=ON L28 AND PARTICLE?
L30	15 SEA FILE=HCAPLUS ABB=ON L17 OR L22 OR L26 OR L27 OR L29
L31	53 SEA FILE=HCAPLUS ABB=ON L24 NOT L30

=> D L31 BIB ABS HITIND FHITSTR 1-53

L31 ANSWER 1 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN  
AN 2006:35334 HCAPLUS  
DN 144:134736  
TI Microcapsules having salt-soluble polymer membranes  
IN Yasue, Ryoji; Isoda, Masaki  
PA Lion Corp., Japan  
SO Jpn. Kokai Tokkyo Koho, 18 pp.  
CODEN: JKXXAF  
DT Patent  
LA Japanese  
FAN.CNT 1

53 other C<sub>4</sub> references without  
word particle

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2006008564	A2	20060112	JP 2004-186589	20040624
PRAI JP 2004-186589		20040624		

AB The invention relates to microcapsules which are insol. in water and soluble or swellable in electrolyte solution for releasing core component in the microcapsules, suitable for use in cosmetics, sanitary goods, fragrances, and fabric-processing products, wherein the microcapsules have salt-soluble polymers, especially sulfobetaine-based polymers, as membrane materials. For example, limonene-containing microcapsules were prepared from 3-dimethyl(methacryloyloxyethyl)ammoniumpropanesulfonate, hexylmethacrylate, and methoxypolyethylene glycol methacrylate at 65/44/2 (mol %) as membrane materials. The obtained microcapsules were combined with other ingredients at 1 % to give a cosmetic lotion.

CC 62-5 (Essential Oils and Cosmetics)

Section cross-reference(s): 46

IT Cosmetics

Disposable diapers

Fabric softeners

Microcapsules

Perfumes

(microcapsules having salt-soluble polymer membranes for cosmetics and fabric-processing products)

IT 138-86-3P, Limonene 336850-96-5P, 3-

Dimethyl(methacryloyloxyethyl)ammoniumpropanesulfonate-lauryl methacrylate copolymer 873225-97-9P 873225-98-0P

873225-99-1P 873226-00-7P 873226-01-8P

873295-13-7P 873295-15-9P 873295-17-1P

873295-19-3P 873295-21-7P

RL: COS (Cosmetic use); SPN (Synthetic preparation); TEM (Technical or engineered material use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(microcapsules having salt-soluble polymer membranes for cosmetics and fabric-processing products)

IT 336850-96-5P, 3-Dimethyl(methacryloyloxyethyl)ammoniumpropanesulfonate-lauryl methacrylate copolymer

RL: COS (Cosmetic use); SPN (Synthetic preparation); TEM (Technical or engineered material use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(microcapsules having salt-soluble polymer membranes for cosmetics and fabric-processing products)

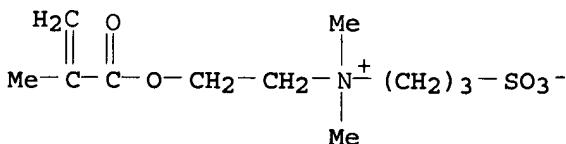
RN 336850-96-5 HCPLUS

CN 1-Propanaminium, N,N-dimethyl-N-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-3-sulfo-, inner salt, polymer with dodecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

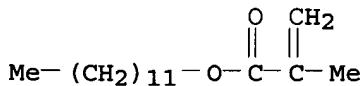
CRN 3637-26-1

CMF C11 H21 N 05 S



CM 2

CRN 142-90-5  
 CMF C16 H30 O2



L31 ANSWER 2 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:405404 HCAPLUS

DN 142:468855

TI Cosmetic substance containing a copolymer with (meth)acrylic acid amide units and an ester of p-aminobenzoic acid and use for hair preparations

IN Patwardhan, Darshan; Wood, Claudia

PA BASF Aktiengesellschaft, Germany

SO PCT Int. Appl., 65 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005041909	A1	20050512	WO 2004-EP12232	20041028
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

DE 10350359	A1	20050602	DE 2003-10350359	20031029
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PRAI	DE 2003-10350359	A	20031029	
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AB The invention relates to a cosmetic substance containing at least one ester of p-aminobenzoic acid and at least one water-soluble copolymer which is obtained by radically copolymerizing acrylic acid amide and/or methacrylic acid amide and other water-soluble alpha,omega-ethylenically unsatd. compds. that can be copolymerized therewith, optionally in the presence of a water-soluble polymeric graft base. Thus series of copolymers were prepared; the obtained microdispersions were freeze dried or spray dried to obtain powders and included in hair preps. An Ultra-Hold hair gel contained (weight/weight%): water 70.95; preservative q.s.; Ultrez 21 0.50; triethanol amine 0.75; prepared VP-methacrylamide-vinylimidazole copolymer 25.00; Pluracare E 400 2.00; D-pantenol 0.50; perfume q.s.; Cremophor CO 40 0.10; Uvinul P 25; Dow Corning 190 0.10.

IC ICM A61K007-11

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 38

IT Antioxidants

Antistatic agents

Dyes

Emulsifying agents

Gelation agents

**Perfumes**

Plasticizers

Preservatives

Suntanning agents

Surfactants

Tackiness

Thickening agents

Transparency

Viscosity

(cosmetic substance containing a copolymer with (meth)acrylic acid amide units and an ester of p-aminobenzoic acid and use for hair preps.)

IT 26006-22-4P 26124-23-2P 30973-80-9P 38139-93-4P  
 38139-94-5P 38639-00-8P 620926-83-2P 620926-88-7P  
 620926-94-5P 620927-05-1P 620927-06-2P 823817-01-2P  
 823817-03-4P 823817-04-5P 823817-05-6P 823817-06-7P  
 823817-07-8P 823817-08-9P 823817-09-0P  
 823817-27-2P 823817-29-4P 823817-31-8P 823817-33-0P 823817-35-2P  
 823817-37-4P 851394-95-1P 851394-96-2P 851394-97-3P  
 851447-38-6P 851447-40-0P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

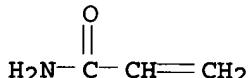
(cosmetic substance containing a copolymer with (meth)acrylic acid amide units and an ester of p-aminobenzoic acid and use for hair preps.)

IT 26006-22-4P  
 RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (cosmetic substance containing a copolymer with (meth)acrylic acid amide units and an ester of p-aminobenzoic acid and use for hair preps.)

RN 26006-22-4 HCPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, methyl sulfate, polymer with 2-propenamide (9CI) (CA INDEX NAME)

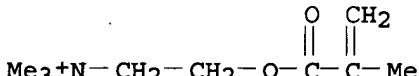
CM 1

CRN 79-06-1  
CMF C3 H5 N O

CM 2

CRN 6891-44-7  
CMF C9 H18 N O2 . C H3 O4 S

CM 3

CRN 33611-56-2  
CMF C9 H18 N O2

CM 4

CRN 21228-90-0  
CMF C H3 O4 SMe—O—SO<sub>3</sub><sup>-</sup>RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 3 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:34724 HCAPLUS

DN 142:120180

TI Cosmetic agent containing at least one soluble copolymer having  
(meth)acrylamide units

IN Nguyen-Kim, Son; Hoessel, Peter

PA BASF Aktiengesellschaft, Germany

SO PCT Int. Appl., 56 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005002532	A2	20050113	WO 2004-EP6891	20040625
	WO 2005002532	A3	20050317		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10330396	A1	20050120	DE 2003-10330396	20030704

PRAI DE 2003-10330396 A 20030704

OS MARPAT 142:120180

AB The invention relates to a cosmetic agent, which contains at least one water-soluble copolymer, which can be obtained by radically copolymerizing acrylamide and/or methacrylamide and addnl. water-soluble  $\alpha,\beta$ -ethylenically unsatd. compds. that can be copolymerized therewith, optionally in the presence of a water-soluble polymeric graft base. The polymers can be used for cosmetic, pharmaceutical preps., and as coatings on textiles, papers, leather and on prints. Thus 50 copolymers were prepared from acrylamide, methacrylamide, N-vinylpyrrolidone, N-vinylcaprolactam, N-vinylformamide, dimethylacrylamide, polyethyleneglycol methacrylate (Mn-350), dimethylaminomethacrylate-dimethylsulfate, degraded starch, and partially saponified polyvinylalcohol. The viscosity, clarity and tackiness of the prepared polymers was measured. A hair gel was composed of (weight/weight%): Phase 1: acrylamide-methacrylamide copolymer (30% aqueous solution) 10.0; glycerin 0.3; water 39.2; preservatives, soluble, ethoxylated silicone, perfume q.s.; Phase 2: Carbopol 940 (1% aqueous suspension) 30.0; Carbopol Ultrez 21 (1% aqueous suspension) 30.0; triethanol amine 0.5; water 20.0.

IC ICM A61K007-11  
 CC 62-4 (Essential Oils and Cosmetics)  
 Section cross-reference(s): 38, 40, 43, 63  
 IT 26006-22-4P 26124-23-2P 30973-80-9P 38139-94-5P  
 38639-00-8P 221683-64-3P 620926-83-2P 620926-88-7P  
**620926-94-5P** 823817-01-2P 823817-02-3P 823817-03-4P  
 823817-04-5P 823817-05-6P 823817-06-7P **823817-07-8P**  
**823817-08-9P** **823817-09-0P** 823817-27-2P 823817-29-4P  
 823817-31-8P 823817-33-0P 823817-35-2P **823817-37-4P**  
 RL: COS (Cosmetic use); PRP (Properties); SPN (Synthetic preparation);  
 BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (cosmetic agent containing at least one soluble copolymer having  
 (meth)acrylamide units)

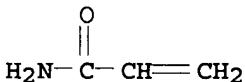
IT 26006-22-4P  
 RL: COS (Cosmetic use); PRP (Properties); SPN (Synthetic preparation);  
 BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (cosmetic agent containing at least one soluble copolymer having  
 (meth)acrylamide units)

RN 26006-22-4 HCPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, methyl sulfate, polymer with 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 79-06-1  
 CMF C3 H5 N O

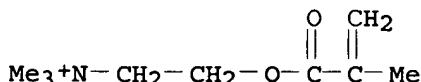


CM 2

CRN 6891-44-7  
 CMF C9 H18 N O2 . C H3 O4 S

CM 3

CRN 33611-56-2  
 CMF C9 H18 N O2



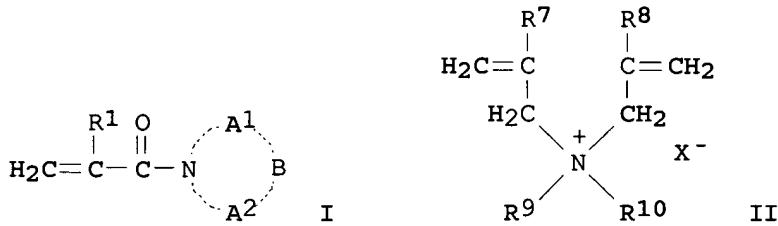
CM 4

CRN 21228-90-0  
 CMF C H3 O4 S

Me-O-SO<sub>3</sub><sup>-</sup>

L31 ANSWER 4 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2004:928792 HCAPLUS  
 DN 141:397314  
 TI Cleaning compositions with good detergency, foamability, and conditioning effect  
 IN Yumoto, Masaharu; Horinishi, Nobutaka  
 PA Kao Corp., Japan  
 SO Jpn. Kokai Tokkyo Koho, 19 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2004307700	A2	20041104	JP 2003-104974	20030409
PRAI JP 2003-104974		20030409		
GI				



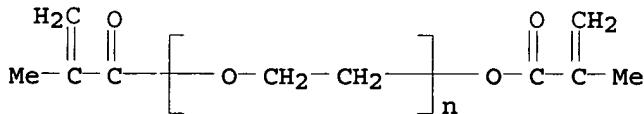
AB Title compns. comprise (A) thickeners composed of cationic copolymers obtained by radical polymerization of  $\geq 1$  nonionic vinyl monomer selected from  $\text{CH}_2:\text{CR1C}(:\text{O})\text{NR2R3}$  and I,  $\geq 1$  cationic vinyl monomer selected from  $\text{CH}_2:\text{CR1C}(:\text{O})\text{YZN+R4R5R6X-}$  and II, and  $\geq 1$  crosslinkable vinyl monomer containing  $\geq 2$  groups selected from vinyl, acryloyl, methacryloyl, and allyl groups and (B) amide alcs.  $\text{R1C}(:\text{O})\text{NR11R12OH}$ , wherein R1, R7, R8 = H or methyl; R2, R3 = H, linear or branched C1-4 alkyl or alkenyl; R4, R5 = C1-4 alkyl or alkenyl; R6 = H or C1-4 alkyl or alkenyl; R9, R10 = H or C1-4 alkyl; R1CO = C6-24 (hydroxy-containing) (un)saturated acyl; R11 = C1-3 linear or branched alkyl; R12 = C1-6 linear or branched alkylene or C2-6 linear or branched alkenyl; A1, A2 =  $(\text{CH}_2)_n$ ; B = O or CH2; Y = O, NH, CH2, or  $\text{OCH}_2\text{CH}(\text{OH})$ ; Z = C1-4 linear or branched alkylene (if Y = CH2, then C0-3 alkylene); X = conjugated base of acid, halogen atom, or C1-4 alkylsulfate; and n = 2-6 integer. Thus, N-ethyl-N,N-dimethyl-2-methacryloyloxyethylammonium ethylsulfate 23.85, N,N-dimethylacrylamide 71.37, and NK 9G polyethylene glycol dimethacrylate 0.0429 g were polymerized to give a cationic polymer with viscosity 2.5 at shear rate 1 s<sup>-1</sup> and 0.5 at shear rate 10 s<sup>-1</sup>, and tan δ 0.98 at strain 1% and 2.28 at strain 500%, 0.5% of which was mixed with palm kernel oil N-methylethanamide 3, Lunac L 55.9, Lunac L 98.6.8, Lunac MY 98.2.3, Aminon 3201M ethylene glycol distearate 3, glycerin 3, and 48% potassium hydroxide 9.5, perfume, and balance water to give a cleaning composition with good detergency, foamability, and conditioning effect.

IC ICM C11D003-37  
 ICS A61K007-075; A61K007-50; C08F220-04; C08F220-34; C08F220-54;  
 C09K003-00; C11D001-52

CC 46-6 (Surface Active Agents and Detergents)  
 Section cross-reference(s) : 62  
 IT 269735-77-5P  
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use);  
**PREP (Preparation)**; USES (Uses)  
 (NK 23G, NK 14G, thickener; cleaning compns. with good detergency,  
 foamability, and conditioning effect)  
 IT 218129-29-4P 218129-36-3P 269735-78-6P 269735-80-0P  
 269739-80-2P 269739-81-3P 269739-82-4P 785783-93-9P  
 785783-94-0P  
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use);  
**PREP (Preparation)**; USES (Uses)  
 (thickener; cleaning compns. with good detergency, foamability, and  
 conditioning effect)  
 IT 269735-77-5P  
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use);  
**PREP (Preparation)**; USES (Uses)  
 (NK 23G, NK 14G, thickener; cleaning compns. with good detergency,  
 foamability, and conditioning effect)  
 RN 269735-77-5 HCPLUS  
 CN Ethanaminium, N-ethyl-N,N-dimethyl-2-[{(2-methyl-1-oxo-2-propenyl)oxy]-,  
 ethyl sulfate, polymer with N,N-dimethyl-2-propenamide and  
 $\alpha$ -(2-methyl-1-oxo-2-propenyl)- $\omega$ -[(2-methyl-1-oxo-2-  
 propenyl)oxy]poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

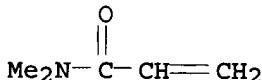
CM 1

CRN 25852-47-5  
 CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> C<sub>8</sub> H<sub>10</sub> O<sub>3</sub>  
 CCI PMS



CM 2

CRN 2680-03-7  
 CMF C<sub>5</sub> H<sub>9</sub> N O

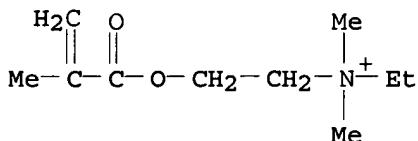


CM 3

CRN 13223-03-5  
 CMF C<sub>10</sub> H<sub>20</sub> N O<sub>2</sub> . C<sub>2</sub> H<sub>5</sub> O<sub>4</sub> S

CM 4

CRN 48063-69-0  
 CMF C<sub>10</sub> H<sub>20</sub> N O<sub>2</sub>



CM 5

CRN 48028-76-8  
CMF C2 H5 O4 SEt-O-SO<sub>3</sub><sup>-</sup>

L31 ANSWER 5 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:139094 HCAPLUS

DN 140:186962

TI Hair conditioners containing polyalkoxysilanes and polyoxyalkylenes

IN Maruyama, Tomoko; Hashimoto, Katsuo

PA Shiseido Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2004051575	A2	20040219	JP 2002-212769	20020722
PRAI JP 2002-212769		20020722		

AB Hair prepns., which show long-lasting hair-conditioning effect, contain polyalkoxysilanes, R1O[(AO)<sub>m</sub>(EO)<sub>n</sub>]R2 (I; R1, R2 = C1-4 hydrocarbyl, H; AO = C3-4 oxyalkylene; EO = oxyethylene; m = 5-10; n = 10-20), organic solvents, and polyhydric alcs. A hair treatment 1st agent was prepared from EtOH 94.0, triethoxysilyl group-containing methacrylate polymer 3.0, I (R1 = R2 = Me, AO = oxypropylene, m = 7, n = 14) 3.0 weight%, and perfume.

IC ICM A61K007-06

ICS A61K007-075

CC 62-3 (Essential Oils and Cosmetics)

IT 216777-05-8P

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(hair conditioners containing polyalkoxysilanes and polyoxyalkylenes)

IT 216777-05-8P

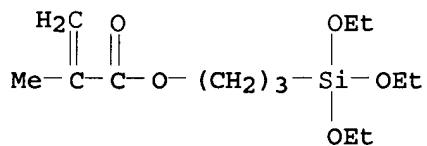
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(hair conditioners containing polyalkoxysilanes and polyoxyalkylenes)

RN 216777-05-8 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with methyl 2-methyl-2-propenoate, 3-(triethoxysilyl)propyl 2-methyl-2-propenoate and 3-[3,3,3-trimethyl-1,1-bis[(trimethylsilyl)oxy]disiloxanyl]propyl 2-methyl-2-propenoate (9CI)  
(CA INDEX NAME)

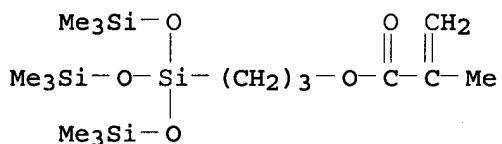
CM 1

CRN 21142-29-0  
 CMF C13 H26 O5 Si



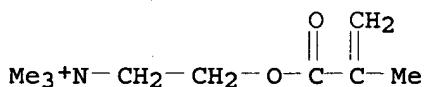
CM 2

CRN 17096-07-0  
 CMF C16 H38 O5 Si4



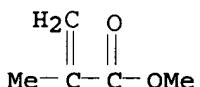
CM 3

CRN 5039-78-1  
 CMF C9 H18 N O2 . Cl

● Cl<sup>-</sup>

CM 4

CRN 80-62-6  
 CMF C5 H8 O2



L31 ANSWER 6 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2003:737538 HCAPLUS  
 DN 139:249987  
 TI Triblock copolymers for cosmetic compositions

IN Adams, Gerald; Eason, Michael Douglas; Khoshdel, Ezat; Rogers, Susanne  
Henning

PA Unilever N.V., Neth.; Unilever PLC; Hindustan Lever Limited  
SO PCT Int. Appl., 52 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003075867	A1	20030918	WO 2003-EP301581	20030218
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003215560	A1	20030922	AU 2003-215560	20030218
	EP 1482900	A1	20041208	EP 2003-743807	20030218
	EP 1482900	B1	20051116		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	US 2005106117	A1	20050519	US 2003-506374	20030218
	JP 2005525373	T2	20050825	JP 2003-574143	20030218
	AT 309777	E	20051215	AT 2003-743807	20030218
PRAI	EP 2002-251712	A	20020312		
	WO 2003-EP1581	W	20030218		

AB Hair treatment composition comprising an ABA block copolymer are disclosed, wherein the A groups are polymeric blocks built up from an unsatd. polymerizable monomer and the B group is a poly(alkylene oxide) block. The composition further comprise a cosmetically acceptable diluent or carrier. Thus, PEG was treated with 2-bromo isobutyryl bromide in the presence of 4-(dimethylamino)pyridine and triethylamine to give the macroinitiator. This macroinitiator was copolymerd. with 2-(dimethylamino)ethyl methacrylate in the presence of 2,2'-dipyridyl and copper (I) bromide to give a triblock polymer. A composition contained Silicone emulsion X2-1787, the above triblock polymer 1.5, Volpo CS50 0.3, Sepicide LD 0.4, Cremophor RH40 0.2, EtOH 7.5, CAP-40 8.0, perfume 0.2, and water to 100%.

IC ICM A61K007-06

ICS A61K007-09

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 37

IT Adhesion, physical

Cosmetics

Hair

Odor and Odorous substances

Perfumes

Propellants (sprays and foams)

Surfactants

Thickening agents

Viscosity

(triblock copolymers for cosmetic compns.)

IT 213599-36-1P 837414-96-7P

RL: COS (Cosmetic use); PRP (Properties); SPN (Synthetic preparation);

BIOL (Biological study); PREP (Preparation); USES (Uses)

(triblock; triblock copolymers for cosmetic compns.)

IT 213599-36-1P

RL: COS (Cosmetic use); PRP (Properties); SPN (Synthetic preparation);  
 BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (triblock; triblock copolymers for cosmetic compns.)

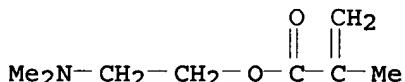
RN 213599-36-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with oxirane, block (9CI) (CA INDEX NAME)

CM 1

CRN 2867-47-2

CMF C8 H15 N O2



CM 2

CRN 75-21-8

CMF C2 H4 O



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 7 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:656628 HCAPLUS

DN 139:185328

TI Cosmetic formulations that contain antimicrobial polymers

IN Ottersbach, Peter; Inhester, Martina

PA Creavis Gesellschaft Fuer Technologie Und Innovation m.b.H., Germany

SO PCT Int. Appl., 23 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003068316	A1	20030821	WO 2002-EP13705	20021204
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10205924	A1	20030821	DE 2002-10205924	20020212
	AU 2002358598	A1	20030904	AU 2002-358598	20021204
PRAI	DE 2002-10205924	A	20020212		

WO 2002-EP13705 W 20021204

AB The invention relates to cosmetic applications and formulations that contain antimicrobial polymers. Thus tert-butylaminoethylmethacrylate was polymerized and added to the components of a com. deodorant formulations that included water, aluminum chlorohydrate, PPG-15-stearyl ether, Steareth-2, Steareth-21, trisodium EDTA, glyceryl laurate, Persea Gratissima, octyldodecanol and bisabolol.

IC ICM A61P017-00  
ICS A61K007-48; A61K031-78; A61K031-785

CC 62-4 (Essential Oils and Cosmetics)  
Section cross-reference(s): 38, 63

IT Antibacterial agents  
Beeswax  
Dentifrices  
Deodorants  
Mouthwashes  
Perfumes  
Persea americana  
Shampoos  
Shaving preparations  
Sunscreens  
(cosmetic formulations that contain antimicrobial polymers)

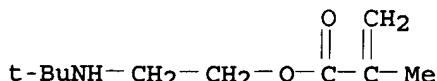
IT 26716-20-1P, tert-Butylaminoethylmethacrylate homopolymer  
328060-60-2P 393110-04-8P, 2-Propenamide, N-[(dimethylamino)propyl]-2-methyl-, homopolymer  
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(cosmetic formulations that contain antimicrobial polymers)

IT 26716-20-1P, tert-Butylaminoethylmethacrylate homopolymer  
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(cosmetic formulations that contain antimicrobial polymers)

RN 26716-20-1 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[(1,1-dimethylethyl)amino]ethyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 3775-90-4  
CMF C10 H19 N O2

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 8 OF 53 HCPLUS COPYRIGHT 2006 ACS on STN  
AN 2003:467312 HCPLUS  
DN 139:41422  
TI Cosmetic media containing at least one copolymer with N-vinyl lactam units prepared in 2-stage radical copolymerization  
IN Nguyen, Kim, Son; Hoessel, Peter; Schunter, Walter  
PA BASF A.-G., Germany  
SO Ger. Offen., 24 pp.  
CODEN: GWXXBX  
DT Patent

LA German

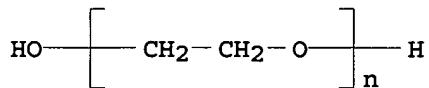
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10160720 CA 2468765 WO 2003053381	A1 AA A1	20030618 20030703 20030703	DE 2001-10160720 CA 2002-2468765 WO 2002-EP14015	20011211 20021210 20021210
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002361042 EP 1455739	A1 A1	20030709 20040915	AU 2002-361042 EP 2002-795144	20021210 20021210
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
	JP 2005516942 US 2005053566	T2 A1	20050609 20050310	JP 2003-554141 US 2004-497164	20021210 20040608
PRAI	DE 2001-10160720 WO 2002-EP14015	A W	20011211 20021210		
AB	The invention concerns cosmetic media containing water soluble or water dispersible copolymers that are prepared by 2-stage radical copolymer. of N-vinyl lactam, an anionic monomer, an acyclic monomer, optionally $\alpha,\beta$ -ethylenic unsatd. compds. in the presence of polymer components with repeating ether groups or groups that are derived from vinyl alc. The copolymers are used in cosmetics to provide pleasant touch to skin and hair. Thus a copolymer was prepared in two steps (weight/weight%): reagents for the first polymerization were partially saponified polyvinyl alc. 5; N-vinylpyrrolidone (40) and N-vinylcaprolactam (40); for the second step methacrylic acid (7.5) and Et acrylate (7.5) were the monomers. The copolymer was used in a hair gel as a 10.0 weight/weight% component, other ingredients were (weight/weight%): Phase 1: glycerin 0.2; D-panthenol 0.1; triethanolamine 0.5; water 39.2; perfume q.s; Phase 2: Carbopol 940 30; water 20;.				
IC	ICM A61K007-00 ICS A61K007-48; A61K007-02; A61K007-06; C08F226-00; C08F220-18; C08F220-52				
CC	62-3 (Essential Oils and Cosmetics) Section cross-reference(s): 38				
IT	543681-41-0P 543681-42-1P 543681-43-2P 543681-44-3P 543681-45-4P 543681-46-5P 543681-47-6P 543681-48-7P 543681-49-8P 543681-50-1P 543681-51-2P 543681-52-3P 543681-53-4P 543681-54-5P 543681-55-6P				
	RL: COS (Cosmetic use); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (cosmetic media containing at least one copolymer with N-vinyl lactam units prepared in 2-stage radical copolymer.)				
IT	543681-44-3P				
	RL: COS (Cosmetic use); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (cosmetic media containing at least one copolymer with N-vinyl lactam units prepared in 2-stage radical copolymer.)				
RN	543681-44-3 HCPLUS				
CN	Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, methyl sulfate, polymer with 1,6-diisocyanatohexane, 1-ethenylhexahydro-2H-azepin-				

2-one, 1-ethenyl-2-pyrrolidinone,  $\alpha$ -hydro- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl) and 2-methyl-2-propenoic acid (9CI) (CA INDEX NAME)

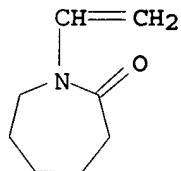
CM 1

CRN 25322-68-3  
 CMF (C<sub>2</sub> H<sub>4</sub> O)<sub>n</sub> H<sub>2</sub> O  
 CCI PMS



CM 2

CRN 2235-00-9  
 CMF C<sub>8</sub> H<sub>13</sub> N O



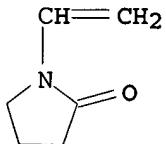
CM 3

CRN 822-06-0  
 CMF C<sub>8</sub> H<sub>12</sub> N<sub>2</sub> O<sub>2</sub>

OCN-(CH<sub>2</sub>)<sub>6</sub>-NCO

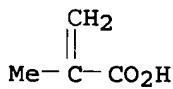
CM 4

CRN 88-12-0  
 CMF C<sub>6</sub> H<sub>9</sub> N O



CM 5

CRN 79-41-4  
 CMF C<sub>4</sub> H<sub>6</sub> O<sub>2</sub>

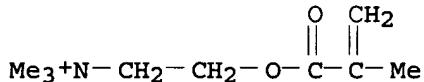


CM 6

CRN 6891-44-7  
 CMF C9 H18 N O2 . C H3 O4 S

CM 7

CRN 33611-56-2  
 CMF C9 H18 N O2



CM 8

CRN 21228-90-0  
 CMF C H3 O4 S

Me-O-SO<sub>3</sub><sup>-</sup>

L31 ANSWER 9 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2003:242139 HCAPLUS  
 DN 138:260088  
 TI Resin compositions for cosmetics  
 IN Hiwatashi, Tomoaki; Shibata, Minako; Nishizawa, Osamu; Onoe, Masato;  
 Kitani, Yasuo  
 PA Mitsubishi Chemical Corporation, Japan  
 SO PCT Int. Appl., 116 pp.

CODEN: PIXXD2  
 DT Patent  
 LA Japanese

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003024414	A1	20030327	WO 2002-JP9338	20020912
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	JP 2003081742	A2	20030319	JP 2001-277521	20010913

JP 2003286142	A2	20031007	JP 2002-93943	20020329
JP 2003335637	A2	20031125	JP 2002-145976	20020521
JP 2003342132	A2	20031203	JP 2002-154294	20020528
JP 2003342133	A2	20031203	JP 2002-156777	20020530
JP 2004051549	A2	20040219	JP 2002-211360	20020719
JP 2004051569	A2	20040219	JP 2002-212443	20020722
EP 1440680	A1	20040728	EP 2002-798830	20020912
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
US 2004223933	A1	20041111	US 2004-798511	20040312

PRAI JP 2001-277521

A 20010913

JP 2002-93943

A 20020329

JP 2002-145976

A 20020521

JP 2002-154294

A 20020528

JP 2002-156777

A 20020530

JP 2002-211360

A 20020719

JP 2002-212443

A 20020722

WO 2002-JP9338

W 20020912

**AB** Disclosed are resin compns. for cosmetics containing a linear block copolymer which has a constitutional unit derived from a compound having an ethylenic unsatd. bond, has a number-average mol. weight of from 1.0x10<sup>3</sup> to 1.0x10<sup>6</sup> and has at least two glass transition points or m.p.; compns. for hair cosmetics containing a copolymer which is capable of forming a film having Young's modulus of 50 mPa or above and an elongation at break of 100 % or above, and dispersible in water and/or alcs.; and cosmetics containing these compns. For example, tert-Bu acrylate-2-ethylhexyl acrylate block copolymer (Tg 50°, 43°, and 107°) was prepared. A shampoo was formulated containing the the above copolymer 1.5, Na polyethylene glycol lauryl ether sulfate 16, lauroyldiethanolamide 2, perfumes 0.2, preservatives 0.1, colors q.s., and water balance to 100 %.

IC ICM A61K007-00

ICS A61K007-06; A61K007-04; C08F293-00

CC 62-3 (Essential Oils and Cosmetics)

IT 26316-49-4P, N,N-Dimethylaminoethyl methacrylate-stearyl methacrylate copolymer

RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)

(film-forming resin compns. for cosmetics)

IT 26316-49-4P, N,N-Dimethylaminoethyl methacrylate-stearyl methacrylate copolymer

RL: COS (Cosmetic use); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)

(film-forming resin compns. for cosmetics)

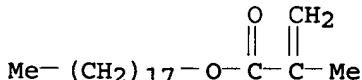
RN 26316-49-4 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with octadecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

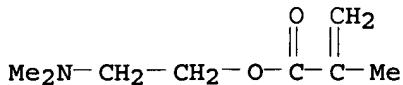
CRN 32360-05-7

CMF C22 H42 O2



CM 2

CRN 2867-47-2  
 CMF C8 H15 N O2



RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L31 ANSWER 10 OF 53 HCPLUS COPYRIGHT 2006 ACS on STN  
 AN 2002:802384 HCPLUS  
 DN 137:329253  
 TI Polymer compositions, hair-coating cosmetics containing them, and their application method  
 IN Saruwatari, Yoshiyuki  
 PA Osaka Yuki Kagaku Kogyo Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 16 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1
- | PATENT NO.          | KIND  | DATE     | APPLICATION NO. | DATE     |
|---------------------|---|----------|-----------------|----------|
| PI JP 2002308722    | A2  | 20021023 | JP 2001-109167  | 20010406 |
| PRAI JP 2001-109167 |   | 20010406 |                 |          |
| AB                  | The compns., which are applied to hair, eyebrow, eyelash, beard, etc., to increase their apparent volume, contain polymers prepared from $\geq 1$ monomers chosen from R11R13C:CR12R2X [I; R11-R13 = H, C1-4 alkyl; R2 = organic group; X = (un)substituted Ph] showing refractive index $\geq 1.5000$ , I [X = Q; R4 = C1-4 (heteroatom-containing) alkylene; R14, R15 = H, C1-4 alkyl] showing refractive index $\geq 1.5000$ , and I (X = SR22; R22 = organic group) showing refractive index $\geq 1.5000$ . A mascara was prepared from N,N-dimethylaminoethyl methacrylate benzyl chloride salt homopolymer 40.0, solid paraffin 8.0, lanolin wax 8.0, isoparaffin 30.0, sorbitan sesquioleate 4.0, H2O 10.0, antiseptic, and perfume to 100.0 weight%.       |          |                 |          |
| IC                  | ICM A61K007-00<br>ICS A61K007-032; A61K007-06; A61K007-11; C08F212-04; C08F220-10; C08F220-22; C08F220-38; C08F226-06; C09D201-02   |          |                 |          |
| CC                  | 62-3 (Essential Oils and Cosmetics)   |          |                 |          |
| IT                  | 9003-39-8P, N-Vinylpyrrolidone homopolymer 26780-21-2P<br>28214-37-1P 42033-74-9P 99588-80-4P<br>174492-11-6P, Acrylic acid-benzyl acrylate-benzyl methacrylate-methacrylic acid copolymer 473258-70-7P 473258-71-8P, 2-Hydroxyethyl acrylate-2-hydroxyethyl methacrylate-2-hydroxypropyl acrylate-2-phenoxyethyl acrylate copolymer 473258-72-9P<br>473258-73-0P 473258-74-1P 473258-75-2P 473258-76-3P<br>473258-77-4P 473258-78-5P 473259-41-5P, Acrylic acid-ethylene oxide-2-hydroxypropyl acrylate-styrene graft copolymer p-cumylphenyl ether<br>RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)<br>(hair-coating cosmetics containing polymers having aromatic ring, heterocyclic ring, or S) |          |                 |          |
| IT                  | 28214-37-1P<br>RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological  |          |                 |          |

study); PREP (Preparation); USES (Uses)  
 (hair-coating cosmetics containing polymers having aromatic ring, heterocyclic  
 ring, or S)

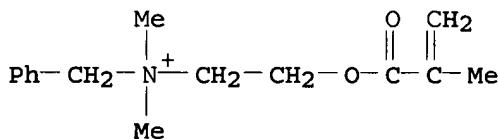
RN 28214-37-1 HCPLUS

CN Benzenemethanaminium, N,N-dimethyl-N-[2-[(2-methyl-1-oxo-2-  
 propenyl)oxy]ethyl]-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 46917-07-1

CMF C15 H22 N O2 . Cl



● Cl-

L31 ANSWER 11 OF 53 HCPLUS COPYRIGHT 2006 ACS on STN

AN 2002:428955 HCPLUS

DN 137:24142

TI Surfactant-free cosmetic, dermatological and pharmaceutical agents

IN Loeffler, Matthias; Morschhaeuser, Roman

PA Clariant GmbH, Germany

SO PCT Int. Appl., 55 pp.

CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 16

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002044231	A1	20020606	WO 2001-EP13860	20011128
	W: BR, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	DE 10059821	A1	20020613	DE 2000-10059821	20001201
	JP 2002201111	A2	20020716	JP 2001-295992	20010927
	EP 1339766	A1	20030903	EP 2001-998570	20011128
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
	BR 2001015810	A	20030916	BR 2001-15810	20011128
	US 2004109836	A1	20040610	US 2003-433175	20031117
PRAI	DE 2000-10059821	A	20001201		
	WO 2001-EP13860	W	20011128		

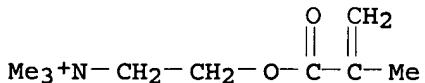
AB The invention relates to surfactant-free cosmetic, dermatol. and pharmaceutical agents that contain at least one copolymer, obtainable by radical copolymn. of (A) acryloyldimethyltaurine acid and/or acryloyldimethyltaurates, (B) optionally one or more other olefinically unsatd., non-cationic comonomers, (C) optionally one or more olefinically unsatd., cationic comonomers, (D) optionally one or more silicon-containing component(s), (E) optionally one or more fluorine-containing component(s), and (F) optionally one or more macromonomers, with the copolymn. optionally proceeding in the presence of (G) at least one polymer additive, with the

proviso that component (A) is copolymerd. with at least one component selected from groups (D) to (G). A typical skin lotion with keratolytic action contained 1.0% polymer prepared by polymerization of 80 g AMPS and 0.6 g allyl methacrylate in the presence of 20 g Genapol LA040 (polyethylene glycol C12-14 alkyl ether), 4% mineral oil, 4% almond oil, 8% Cetiol SN, 0.3% Aristoflex AVC, 0.3% citric acid, 0.4% malic acid, 0.7% glycolic acid, 0.7% lactic acid, and 0.3% perfume, with the remainder being water.

- IC ICM C08F291-00  
 ICS A61K007-48; A61K007-06; C08F290-06; C08L051-00; C08F002-00  
 CC 62-4 (Essential Oils and Cosmetics)  
 Section cross-reference(s): 63  
 IT 1873-88-7DP, polyoxyalkylene derivs., esters, with acryloyldimethyltaurine acid-based polymers 9003-01-4DP, Polyacrylic acid, reaction products with acryloyldimethyltaurine acid-based polymers 9003-05-8DP, Polyacrylamide, reaction products with acryloyldimethyltaurine acid-based polymers 9003-39-8DP, Poly-N-vinylpyrrolidone, reaction products with acryloyldimethyltaurine acid-based polymers 25087-26-7DP, Polymethacrylic acid, reaction products with acryloyldimethyltaurine acid-based polymers 25189-83-7DP, Poly-N-vinylcaprolactam, reaction products with acryloyldimethyltaurine acid-based polymers 25322-68-3DP, Polyethylene glycol, fatty alkyl ethers, esters, with acryloyldimethyltaurine acid-based polymers 25322-69-4DP, Polypropylene glycol, reaction products with acryloyldimethyltaurine acid-based polymers 26062-79-3DP, Polydiallyldimethylammonium chloride, reaction products with acryloyldimethyltaurine acid-based polymers 26161-33-1DP, Poly-2-methacryloyloxyethyltrimethylammonium chloride, reaction products with acryloyldimethyltaurine acid-based polymers 26616-03-5DP, Poly-N-vinyl-N-methylacetamide, reaction products with acryloyldimethyltaurine acid-based polymers 28408-65-3DP, Poly-N-vinylacetamide, reaction products with acryloyldimethyltaurine acid-based polymers 31851-82-8DP, Poly-N-vinylmorpholine, reaction products with acryloyldimethyltaurine acid-based polymers 50885-97-7DP, Polyhydroxymethyl methacrylate, reaction products with acryloyldimethyltaurine acid-based polymers 72018-12-3DP, Poly-N-vinylformamide, reaction products with acryloyldimethyltaurine acid-based polymers 201338-09-2DP, 2-Acrylamido-2-methyl-1-propanesulfonic acid-TMPTA copolymer, esters with polyethylene glycol monoalkyl ethers 433922-71-5DP, 2-Acrylamido-2-methyl-1-propanesulfonic acid-allyl methacrylate copolymer, esters with polyethylene glycol monoalkyl ethers or polyoxyalkylene-polysiloxanes 434938-49-5P  
 RL: COS (Cosmetic use); IMF (Industrial manufacture); TEM (Technical or engineered material use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (surfactant-free cosmetic, dermatol. and pharmaceutical agents containing acryloyldimethyltaurate-based polymers)  
 IT 26161-33-1DP, Poly-2-methacryloyloxyethyltrimethylammonium chloride, reaction products with acryloyldimethyltaurine acid-based polymers  
 RL: COS (Cosmetic use); IMF (Industrial manufacture); TEM (Technical or engineered material use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (surfactant-free cosmetic, dermatol. and pharmaceutical agents containing acryloyldimethyltaurate-based polymers)  
 RN 26161-33-1 HCPLUS  
 CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 5039-78-1  
 CMF C9 H18 N O2 . Cl



● Cl-

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 12 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2001:736921 HCAPLUS  
 DN 135:293704  
 TI Sulfo group-containing polysiloxane block copolymers and cosmetics containing them  
 IN Miyazawa, Kazuyuki; Kaneda, Isamu; Hariki, Toshio  
 PA Shiseido Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 15 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2001278982	A2	20011010	JP 2000-96949	20000331
PRAI JP 2000-96949		20000331		
AB Cosmetics contain block copolymers comprising polysiloxane blocks CR2R3(CH <sub>2</sub> ) <sub>p</sub> COABSi(R <sub>1</sub> ) <sub>2</sub> [OSi(R <sub>1</sub> ) <sub>2</sub> ]mOSi(R <sub>1</sub> ) <sub>2</sub> BA or COYCOABSi(R <sub>1</sub> ) <sub>2</sub> [OSi(R <sub>1</sub> ) <sub>2</sub> ]mOSi(R <sub>1</sub> ) <sub>2</sub> BA [R <sub>1</sub> = H, C <sub>1</sub> -6 alkyl, Ph; R <sub>2</sub> = H, C <sub>1</sub> -6 alkyl; R <sub>3</sub> = C <sub>1</sub> -6 alkyl, cyano; Y = dibasic acid residue; A = NH, O; B = (O-containing) C <sub>1</sub> -6 alkylene; m = 1-10,000; p = 0-6] and hydrophilic blocks containing SO <sub>3</sub> H. The copolymers improve pigment dispersibility. A lipstick was prepared from TiO <sub>2</sub> 5, candelilla wax 9, solid paraffin 8, beeswax 5, carnauba wax 5, polydimethylsiloxane 26.5, decamethylcyclopentasiloxane 20, lanolin 11, iso-Pr myristate 10, block copolymer [prepared from poly[polydimethylsiloxane-4,4'-azobis(4-cyanopentanamidopropyl)], 2-acrylamido-2-methylpropanesulfonic acid, N-stearylacrylamide, and glyceryl methacrylate] 0.5, antiseptic, and perfume to 100 weight%.				
IC ICM C08G077-442				
ICS A61K007-00; A61K007-021; A61K007-027; A61K007-031; A61K007-032; A61K007-043; A61K007-13; A61K007-38; A61K007-42				
CC 62-4 (Essential Oils and Cosmetics)				
Section cross-reference(s): 35				
IT 365220-85-5P 365220-87-7P 365220-89-9P 365220-91-3P				
365220-93-5P 365220-95-7P 365220-97-9P				
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (cosmetics containing sulfo group-containing polysiloxane block copolymers as pigment dispersants)				
IT 365220-89-9P				
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (cosmetics containing sulfo group-containing polysiloxane block copolymers as				

pigment dispersants)

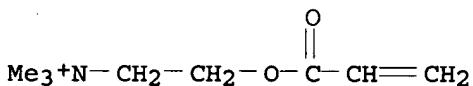
RN 365220-89-9 HCPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride, polymer with  $\alpha$ -hydro- $\omega$ -hydroxypoly[oxy(dimethylsilylene)], 2-methyl-2-[(1-oxo-2-propenyl)aminol-1-propanesulfonic acid and octadecyl 2-propenoate, block (9CI) (CA INDEX NAME)

CM 1

CRN 44992-01-0

CMF C8 H16 N O2 . Cl



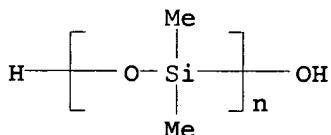
● Cl<sup>-</sup>

CM 2

CRN 31692-79-2

CMF (C<sub>2</sub> H<sub>6</sub> O Si)<sub>n</sub> H<sub>2</sub> O

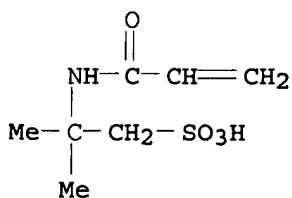
CCI PMS



CM 3

CRN 15214-89-8

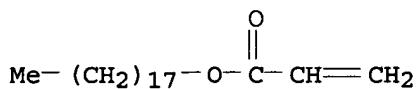
CMF C<sub>7</sub> H<sub>13</sub> N O<sub>4</sub> S



CM 4

CRN 4813-57-4

CMF C<sub>21</sub> H<sub>40</sub> O<sub>2</sub>



L31 ANSWER 13 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2000:199289 HCAPLUS

DN 132:241663

TI Oil-in-alcohol-type hair-styling compositions containing polyether-silicone emulsifiers and cationic polymers

IN Ohmura, Takayuki; Nanba, Tomiyuki

PA Shiseido Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2000086466	A2	20000328	JP 1998-270591	19980908
PRAI JP 1998-270591		19980908		

AB The compns. contain oils, lower alcs., H<sub>2</sub>O, polyether-silicone emulsifiers ASiR<sub>2</sub>O(SiR<sub>2</sub>O)<sub>m</sub>(SiRB<sub>1</sub>O)<sub>n</sub>SiR<sub>2</sub>A (I; A = Me, Ph, B<sub>1</sub>; B<sub>1</sub> = C<sub>3</sub>H<sub>6</sub>O(C<sub>2</sub>H<sub>4</sub>O)<sub>a</sub>(C<sub>3</sub>H<sub>6</sub>O)<sub>b</sub>R'; R' = H, acyl, C<sub>1</sub>-4 alkyl; a, b = 5-50; R = Me, Ph; m = 50-1000; n = 0-40), and cationic polymers prepared by modification of copolymers from CH<sub>2</sub>:CR<sub>1</sub>COXR<sub>2</sub>NR<sub>3</sub>R<sub>4</sub> (R<sub>1</sub> = H, Me; R<sub>2</sub> = C<sub>1</sub>-4 alkylene; R<sub>3</sub>, R<sub>4</sub> = C<sub>1</sub>-4 alkyl; X = O, NH) 50-90, CH<sub>2</sub>:CR<sub>5</sub>CO<sub>2</sub>R<sub>6</sub> (R<sub>5</sub> = H, Me; R<sub>6</sub> = C<sub>12</sub>-24 alkyl) 10-50, and other monomers 0-25 weight% with cationization agents YE (Y = Br, Cl, I, C<sub>1</sub>-4 alkyl sulfate residue; E = C<sub>1</sub>-12 alkyl, benzyl, C<sub>1</sub>-3 fatty acid C<sub>1</sub>-4 alkyl ester residue). A hair cream containing dimethylpolysiloxane 2.0, liquid isoparaffin 30.0, isoparaffin solution containing 50% I [A, R = Me, B<sub>1</sub> = (CH<sub>2</sub>)<sub>3</sub>O(C<sub>2</sub>H<sub>4</sub>O)<sub>a</sub>(C<sub>3</sub>H<sub>6</sub>O)<sub>b</sub>, R' = H, m = 400, n = 10, a = b = 24] 20.0, EtOH 37.4, dimethylaminoethyl methacrylate-stearyl acrylate-tridecyl methacrylate copolymer compound with BuCl 3.0, perfume, paraben, antioxidant, and H<sub>2</sub>O to 100 weight% was not sticky and showed good hair-styling and -smoothing effects.

IC ICM A61K007-11

CC 62-3 (Essential Oils and Cosmetics)

IT 175842-24-7P 175842-25-8P 261919-83-9P

261949-40-0P

RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(oil-in-alc. hair-styling compns. containing polyoxyalkylene-siloxane emulsifiers and cationized polymers)

IT 175842-24-7P

RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(oil-in-alc. hair-styling compns. containing polyoxyalkylene-siloxane emulsifiers and cationized polymers)

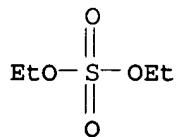
RN 175842-24-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with docosyl 2-methyl-2-propenoate, dodecyl 2-propenoate and hexadecyl 2-methyl-2-propenoate, compd. with diethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 64-67-5

CMF C4 H10 O4 S

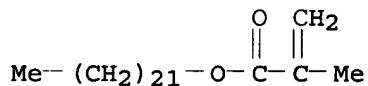


CM 2

CRN 154150-92-2  
 CMF (C26 H50 O2 . C20 H38 O2 . C15 H28 O2 . C8 H15 N O2)x  
 CCI PMS

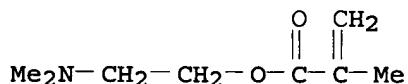
CM 3

CRN 16669-27-5  
 CMF C26 H50 O2



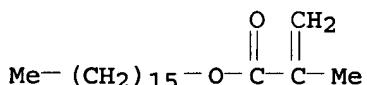
CM 4

CRN 2867-47-2  
 CMF C8 H15 N O2



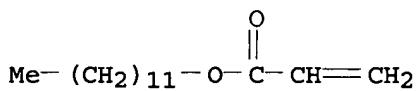
CM 5

CRN 2495-27-4  
 CMF C20 H38 O2



CM 6

CRN 2156-97-0  
 CMF C15 H28 O2



L31 ANSWER 14 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2000:199288 HCAPLUS  
 DN 132:241662  
 TI Hair-styling preparations containing cationic polymers and Plant extracts  
 IN Ohmura, Takayuki; Nanba, Tomiyuki  
 PA Shiseido Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 10 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2000086461	A2	20000328	JP 1998-280546	19980916
PRAI JP 1998-280546		19980916		

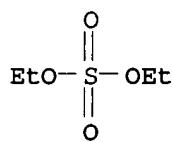
AB Hair cosmetics contain (A) cationic polymers prepared by modification of copolymers from CH<sub>2</sub>:CR<sub>1</sub>COXR<sub>2</sub>NR<sub>3</sub>R<sub>4</sub> (R<sub>1</sub> = H, Me; R<sub>2</sub> = C<sub>1-4</sub> alkylene; R<sub>3</sub>, R<sub>4</sub> = C<sub>1-4</sub> alkyl; X = O, NH) 50-90, CH<sub>2</sub>:CR<sub>5</sub>CO<sub>2</sub>R<sub>6</sub> (R<sub>5</sub> = H, Me; R<sub>6</sub> = C<sub>12-24</sub> alkyl) 10-50, and other monomers 0-25 weight% with cationization agents YE (Y = Br, Cl, I, C<sub>1-4</sub> alkyl sulfate residue; E = C<sub>1-12</sub> alkyl, benzyl, C<sub>1-3</sub> fatty acid C<sub>1-4</sub> alkyl ester residue) and (B) plant exts. A hair preparation containing decamethylcyclopentasiloxane 15.0, dimethylpolysiloxane 3.0, 1,3-butylene glycol 2.0, polyoxyethylene hydrogenated castor oil 2.0, dimethylaminoethyl methacrylate-lauryl acrylate-cetyl methacrylate-behenyl methacrylate copolymer compound with Et<sub>2</sub>SO<sub>4</sub> 1.0, ginkgo extract 1.0, Phellodendron amurense extract 1.0, EtOH 15.0, perfume, and H<sub>2</sub>O to 100 weight% showed hair-smoothing and -styling effects.

IC ICM A61K007-06  
 ICS A61K007-11  
 CC 62-3 (Essential Oils and Cosmetics)  
 IT 175842-24-7P 175842-25-8P 261919-83-9P  
 261949-40-0P  
 RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (hair-smoothing and -styling prepns. containing cationized polymers and plant exts.)

IT 175842-24-7P  
 RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (hair-smoothing and -styling prepns. containing cationized polymers and plant exts.)

RN 175842-24-7 HCAPLUS  
 CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with docosyl 2-methyl-2-propenoate, dodecyl 2-propenoate and hexadecyl 2-methyl-2-propenoate, compd. with diethyl sulfate (9CI) (CA INDEX NAME)

CM 1  
 CRN 64-67-5  
 CMF C4 H10 O4 S

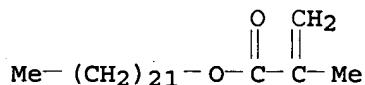


CM 2

CRN 154150-92-2  
 CMF (C26 H50 O2 . C20 H38 O2 . C15 H28 O2 . C8 H15 N O2)x  
 CCI PMS

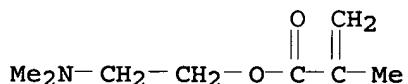
CM 3

CRN 16669-27-5  
 CMF C26 H50 O2



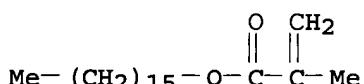
CM 4

CRN 2867-47-2  
 CMF C8 H15 N O2



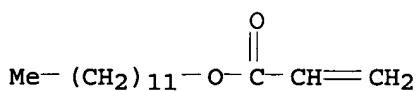
CM 5

CRN 2495-27-4  
 CMF C20 H38 O2



CM 6

CRN 2156-97-0  
 CMF C15 H28 O2



L31 ANSWER 15 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2000:197955 HCAPLUS

DN 132:241659

TI Hair-styling compositions containing cationic polymers

IN Ohmura, Takayuki; Nanba, Tomiyuki

PA Shiseido Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2000086468	A2	20000328	JP 1998-270593	19980908
PRAI JP 1998-270593		19980908		

AB The compns. contain (A) cationic polymers prepared by modification of copolymers from CH<sub>2</sub>:CR<sub>1</sub>COXR<sub>2</sub>NR<sub>3</sub>R<sub>4</sub> (R<sub>1</sub> = H, Me; R<sub>2</sub> = C<sub>1-4</sub> alkylene; R<sub>3</sub>, R<sub>4</sub> = C<sub>1-4</sub> alkyl; X = O, NH) 50-90, CH<sub>2</sub>:CR<sub>5</sub>CO<sub>2</sub>R<sub>6</sub> (R<sub>5</sub> = H, Me; R<sub>6</sub> = C<sub>12-24</sub> alkyl) 10-50, and other monomers 0-25 weight% with cationization agents YE (Y = Br, Cl, I, C<sub>1-4</sub> alkyl sulfate residue; E = C<sub>1-12</sub> alkyl, benzyl, C<sub>1-3</sub> fatty acid C<sub>1-4</sub> alkyl ester residue) and (B) 7:3 to 3:7 vinylpyrrolidone-vinyl acetate copolymer (I). A hair preparation containing decamethylcyclopentasiloxane 15.0, dimethylpolysiloxane 3.0, 1,3-butylene glycol 2.0, polyoxyethylene hydrogenated castor oil 2.0, dimethylaminoethyl methacrylate-lauryl acrylate-cetyl methacrylate-behenyl methacrylate copolymer compound with Et<sub>2</sub>SO<sub>4</sub> 5.0, I 3.0, EtOH 15.0, perfume, and H<sub>2</sub>O to 100 weight% was not sticky and showed good hair-styling and -smoothing effects.

IC ICM A61K007-11

CC 62-3 (Essential Oils and Cosmetics)

IT 175842-24-7P 175842-25-8P 261919-83-9P

261949-40-0P

RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(hair-smoothing and -styling preps. containing cationized polymers and vinylpyrrolidone-vinyl acetate copolymer)

IT 175842-24-7P

RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(hair-smoothing and -styling preps. containing cationized polymers and vinylpyrrolidone-vinyl acetate copolymer)

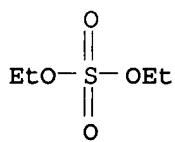
RN 175842-24-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with docosyl 2-methyl-2-propenoate, dodecyl 2-propenoate and hexadecyl 2-methyl-2-propenoate, compd. with diethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 64-67-5

CMF C4 H10 O4 S

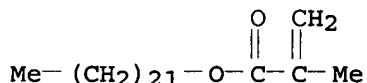


CM 2

CRN 154150-92-2  
 CMF (C26 H50 O2 . C20 H38 O2 . C15 H28 O2 . C8 H15 N O2)x  
 CCI PMS

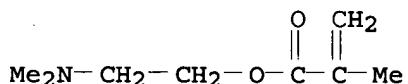
CM 3

CRN 16669-27-5  
 CMF C26 H50 O2



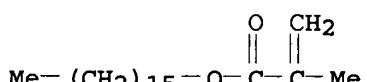
CM 4

CRN 2867-47-2  
 CMF C8 H15 N O2



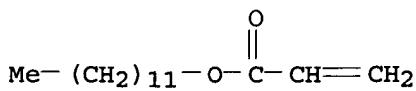
CM 5

CRN 2495-27-4  
 CMF C20 H38 O2



CM 6

CRN 2156-97-0  
 CMF C15 H28 O2



L31 ANSWER 16 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2000:197954 HCAPLUS

DN 132:241658

TI Hair-styling compositions containing cationic polymers

IN Ohmura, Takayuki; Nanba, Tomiyuki

PA Shiseido Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2000086467	A2	20000328	JP 1998-270592	19980908
PRAI JP 1998-270592		19980908		

AB The compns. contain (A) cationic polymers prepared by modification of copolymers from CH<sub>2</sub>:CR<sub>1</sub>COXR<sub>2</sub>NR<sub>3</sub>R<sub>4</sub> (R<sub>1</sub> = H, Me; R<sub>2</sub> = C<sub>1</sub>-4 alkylene; R<sub>3</sub>, R<sub>4</sub> = C<sub>1</sub>-4 alkyl; X = O, NH) 50-90, CH<sub>2</sub>:CR<sub>5</sub>CO<sub>2</sub>R<sub>6</sub> (R<sub>5</sub> = H, Me; R<sub>6</sub> = C<sub>12</sub>-24 alkyl) 10-50, and other monomers 0-25 weight% with cationization agents YE (Y = Br, Cl, I, C<sub>1</sub>-4 alkyl sulfate residue; E = C<sub>1</sub>-12 alkyl, benzyl, C<sub>1</sub>-3 fatty acid C<sub>1</sub>-4 alkyl ester residue) and (B) vinylpyrrolidone-N,N-dimethylaminoethyl methacrylate copolymer di-Et sulfate salt (I) (vinylpyrrolidone units/quaternized N,N-dimethylaminoethyl methacrylate units = 2/8 to 8/2). A hair preparation containing decamethylcyclopentasiloxane 15.0, dimethylpolysiloxane 3.0, 1,3-butylene glycol 2.0, polyoxyethylene hydrogenated castor oil 2.0, dimethylaminoethyl methacrylate-lauryl acrylate-cetyl methacrylate-behenyl methacrylate copolymer compound with Et<sub>2</sub>SO<sub>4</sub> 5.0, I 7.0, EtOH 15.0, perfume, and H<sub>2</sub>O to 100 weight% was not sticky and showed good hair-styling and -smoothing effects.

IC ICM A61K007-11

CC 62-3 (Essential Oils and Cosmetics)

IT 175842-24-7P 175842-25-8P 261919-83-9P

261949-40-0P

RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (hair-smoothing and -styling prepns. containing cationized acrylic polymers)

IT 175842-24-7P

RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (hair-smoothing and -styling prepns. containing cationized acrylic polymers)

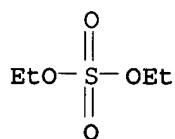
RN 175842-24-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with docosyl 2-methyl-2-propenoate, dodecyl 2-propenoate and hexadecyl 2-methyl-2-propenoate, compd. with diethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 64-67-5

CMF C4 H10 O4 S

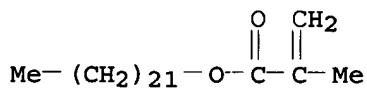


CM 2

CRN 154150-92-2  
 CMF (C26 H50 O2 . C20 H38 O2 . C15 H28 O2 . C8 H15 N O2)x  
 CCI PMS

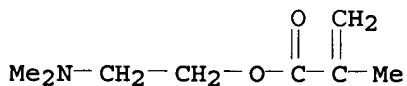
CM 3

CRN 16669-27-5  
 CMF C26 H50 O2



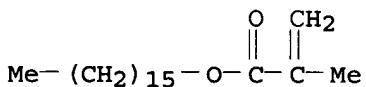
CM 4

CRN 2867-47-2  
 CMF C8 H15 N O2



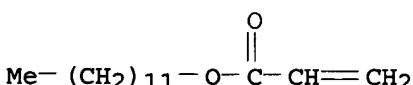
CM 5

CRN 2495-27-4  
 CMF C20 H38 O2



CM 6

CRN 2156-97-0  
 CMF C15 H28 O2



L31 ANSWER 17 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2000:197952 HCAPLUS  
 DN 132:241657  
 TI Hair-smoothing and -styling preparations containing cationic polymers and keratin degradation products  
 IN Omura, Takayuki; Nanba, Tomiyuki  
 PA Shiseido Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 13 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2000086464	A2	20000328	JP 1998-280549	19980916
PRAI JP 1998-280549		19980916		

AB Hair cosmetics contain (A) cationic polymers prepared by modification of copolymers from CH<sub>2</sub>:CR<sub>1</sub>COXR<sub>2</sub>NR<sub>3</sub>R<sub>4</sub> (R<sub>1</sub> = H, Me; R<sub>2</sub> = C<sub>1-4</sub> alkylene; R<sub>3</sub>, R<sub>4</sub> = C<sub>1-4</sub> alkyl; X = O, NH) 50-90, CH<sub>2</sub>:CR<sub>5</sub>CO<sub>2</sub>R<sub>6</sub> (R<sub>5</sub> = H, Me; R<sub>6</sub> = C<sub>12-24</sub> alkyl) 10-50, and other monomers 0-25 weight% with cationization agents YE (Y = Br, Cl, I, C<sub>1-4</sub> alkyl sulfate residue; E = C<sub>1-12</sub> alkyl, benzyl, C<sub>1-3</sub> fatty acid C<sub>1-4</sub> alkyl ester residue) and (B) keratin hydrolyzates, alkali salts of oxidized keratins, and/or alkali salts of thiol derivs. of reduced keratins. A hair preparation containing decamethylcyclopentasiloxane 15.0,  $\alpha$ -keratose from wool fibers 1.0, keratin-S-(2-acrylamido-2-methylpropanesulfonic acid) derivative 1.0, 1,3-butylene glycol 2.0, polyoxyethylene hydrogenated castor oil 2.0, dimethylaminoethyl methacrylate-lauryl acrylate-cetyl methacrylate-behenyl methacrylate copolymer compound with Et<sub>2</sub>SO<sub>4</sub> 1.0, EtOH 15.0, perfume, and H<sub>2</sub>O to 100 weight% showed hair-smoothing, -styling, and -conditioning effects.

IC ICM A61K007-06  
 ICS A61K007-11

CC 62-3 (Essential Oils and Cosmetics)

IT 64-69-7DP, Iodoacetic acid, keratin derivs. 110-16-7DP, Maleic acid, keratin derivs. 15214-89-8DP, 2-Acrylamido-2-methylpropanesulfonic acid, keratin derivs. 26914-43-2DP, Styrenesulfonic acid, keratin derivs.  
**175842-24-7P 175842-25-8P 261919-83-9P**  
**261949-40-0P**

RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (hair-smoothing and -styling preps. containing cationized polymers and keratin degradation products (derivs.))

IT **175842-24-7P**

RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (hair-smoothing and -styling preps. containing cationized polymers and keratin degradation products (derivs.))

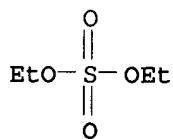
RN 175842-24-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with docosyl 2-methyl-2-propenoate, dodecyl 2-propenoate and hexadecyl 2-methyl-2-propenoate, compd. with diethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 64-67-5

CMF C4 H10 O4 S

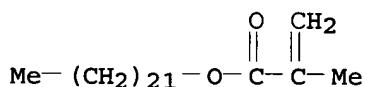


CM 2

CRN 154150-92-2  
 CMF (C26 H50 O2 . C20 H38 O2 . C15 H28 O2 . C8 H15 N O2)x  
 CCI PMS

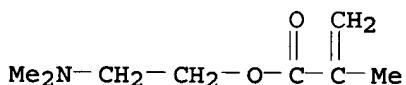
CM 3

CRN 16669-27-5  
 CMF C26 H50 O2



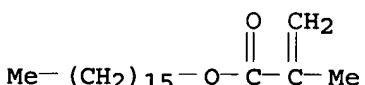
CM 4

CRN 2867-47-2  
 CMF C8 H15 N O2



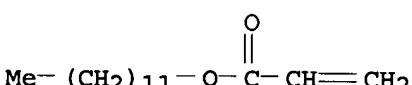
CM 5

CRN 2495-27-4  
 CMF C20 H38 O2



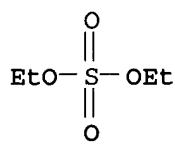
CM 6

CRN 2156-97-0  
 CMF C15 H28 O2



L31 ANSWER 18 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2000:197951 HCAPLUS  
 DN 132:255738  
 TI Hair-smoothing and -styling preparations containing cationized polymers  
 IN Ohmura, Takayuki; Nanba, Tomiyuki  
 PA Shiseido Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 10 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2000086463	A2	20000328	JP 1998-280548	19980916
PRAI JP 1998-280548		19980916		
AB Hair cosmetics contain (A) cationic polymers prepared by modification of copolymers from CH <sub>2</sub> :CR <sub>1</sub> COXR <sub>2</sub> NR <sub>3</sub> R <sub>4</sub> (R <sub>1</sub> = H, Me; R <sub>2</sub> = C <sub>1</sub> -4 alkylene; R <sub>3</sub> , R <sub>4</sub> = C <sub>1</sub> -4 alkyl; X = O, NH) 50-90, CH <sub>2</sub> :CR <sub>5</sub> CO <sub>2</sub> R <sub>6</sub> (R <sub>5</sub> = H, Me; R <sub>6</sub> = C <sub>12</sub> -24 alkyl) 10-50, and other monomers 0-25 weight% with cationization agents YE (Y = Br, Cl, I, C <sub>1</sub> -4 alkyl sulfate residue; E = C <sub>1</sub> -12 alkyl, benzyl, C <sub>1</sub> -3 fatty acid C <sub>1</sub> -4 alkyl ester residue) and (B) phospholipids, proteins, protein hydrolyzates, and/or their derivs. A hair preparation containing decamethylcyclopentasiloxane 15.0, soya lecithin 1.0, elastin 1.0, 1,3-butylene glycol 2.0, polyoxyethylene hydrogenated castor oil 2.0, dimethylaminoethyl methacrylate-lauryl acrylate-cetyl methacrylate-behenyl methacrylate copolymer compound with Et <sub>2</sub> SO <sub>4</sub> 1.0, EtOH 15.0, perfume, and H <sub>2</sub> O to 100 weight% showed hair-smoothing, -styling, and -conditioning effects.				
IC ICM A61K007-06				
ICS A61K007-11				
CC 62-3 (Essential Oils and Cosmetics)				
IT 175842-24-7P 175842-25-8P 261919-83-9P 261949-40-0P				
RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses) (hair-smoothing and -styling prepns. containing cationized polymers and phospholipids and/or proteins (hydrolyzates))				
IT 175842-24-7P				
RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses) (hair-smoothing and -styling prepns. containing cationized polymers and phospholipids and/or proteins (hydrolyzates))				
RN 175842-24-7 HCAPLUS				
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with docosyl 2-methyl-2-propenoate, dodecyl 2-propenoate and hexadecyl 2-methyl-2-propenoate, compd. with diethyl sulfate (9CI) (CA INDEX NAME)				
CM 1				
CRN 64-67-5				
CMF C4 H10 O4 S				

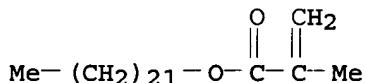


CM 2

CRN 154150-92-2  
 CMF (C26 H50 O2 . C20 H38 O2 . C15 H28 O2 . C8 H15 N O2)x  
 CCI PMS

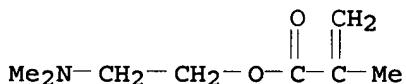
CM 3

CRN 16669-27-5  
 CMF C26 H50 O2



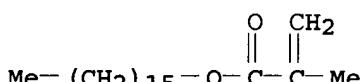
CM 4

CRN 2867-47-2  
 CMF C8 H15 N O2



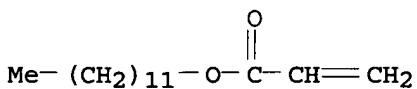
CM 5

CRN 2495-27-4  
 CMF C20 H38 O2



CM 6

CRN 2156-97-0  
 CMF C15 H28 O2



L31 ANSWER 19 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2000:197950 HCAPLUS  
 DN 132:241656  
 TI Hair-smoothing and -styling preparations containing cationic polymers and silyl peptides  
 IN Ohmura, Takayuki; Nanba, Tomiyuki  
 PA Shiseido Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 15 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2000086462	A2	20000328	JP 1998-280547	19980916
PRAI JP 1998-280547		19980916		

AB Hair cosmetics contain (A) cationic polymers prepared by modification of copolymers from CH<sub>2</sub>:CR<sub>1</sub>COXR<sub>2</sub>NR<sub>3</sub>R<sub>4</sub> (R<sub>1</sub> = H, Me; R<sub>2</sub> = C<sub>1-4</sub> alkylene; R<sub>3</sub>, R<sub>4</sub> = C<sub>1-4</sub> alkyl; X = O, NH) 50-90, CH<sub>2</sub>:CR<sub>5</sub>CO<sub>2</sub>R<sub>6</sub> (R<sub>5</sub> = H, Me; R<sub>6</sub> = C<sub>12-24</sub> alkyl) 10-50, and other monomers 0-25 weight% with cationization agents YE (Y = Br, Cl, I, C<sub>1-4</sub> alkyl sulfate residue; E = C<sub>1-12</sub> alkyl, benzyl, C<sub>1-3</sub> fatty acid C<sub>1-4</sub> alkyl ester residue) and (B) silyl peptides R<sub>7</sub>R<sub>8</sub>R<sub>9</sub>Si(CH<sub>2</sub>)<sub>a</sub>[NHCH[R<sub>10</sub>NH(CH<sub>2</sub>)<sub>a</sub>SiR<sub>7</sub>R<sub>8</sub>R<sub>9</sub>]CO]<sub>m</sub>(NHCHR<sub>11</sub>CO)<sub>n</sub>OH or R<sub>7</sub>R<sub>8</sub>R<sub>9</sub>Si(CH<sub>2</sub>)<sub>a</sub>OCH<sub>2</sub>CH(OH)CH<sub>2</sub>[NHCH[R<sub>10</sub>NHCH<sub>2</sub>CH(OH)CH<sub>2</sub>O(CH<sub>2</sub>)<sub>a</sub>SiR<sub>7</sub>R<sub>8</sub>R<sub>9</sub>]CO]<sub>m</sub>(NHCHR<sub>11</sub>CO)<sub>n</sub>OH [R<sub>7</sub>-R<sub>9</sub> = C<sub>1-3</sub> alkyl, OH; R<sub>10</sub> = basic amino acid residue; R<sub>11</sub> = amino acid side chain other than R<sub>11</sub>; a = 1, 3; m, n = 0-200; m + n = 1-200; m and n indicate the nos. of amino acids and do not show the order of amino acid sequences]. A hair preparation containing decamethylcyclopentasiloxane 15.0, collagen hydrolyzate γ-glycidoxypropyldimethoxymethylsilane derivative 1.5, yeast protein hydrolyzate γ-glycidoxypropyldiethoxymethylsilane derivative 1.5, 1,3-butylene glycol 2.0, polyoxyethylene hydrogenated castor oil 2.0, dimethylaminoethyl methacrylate-lauryl acrylate-cetyl methacrylate-behenyl methacrylate copolymer compound with Et<sub>2</sub>SO<sub>4</sub> 1.0, EtOH 15.0, perfume, and H<sub>2</sub>O to 100 weight% showed hair-smoothing, -styling, and -conditioning effects.

IC ICM A61K007-06  
 ICS A61K007-11  
 CC 62-3 (Essential Oils and Cosmetics)  
 IT 2530-83-8DP, (γ-Glycidoxypropyl)trimethoxysilane, reaction products with yeast protein hydrolyzate 2897-60-1DP, (3-Glycidoxypropyl)diethoxymethylsilane, reaction products with keratin hydrolyzate 3695-73-6DP, Glycyl-L-alanine, reaction products with dimethoxy(glycidoxymethyl)methylsilane 10098-89-2DP, L-Lysine hydrochloride, reaction products with (glycidoxypropyl)trimethoxysilane 56900-02-8DP, reaction products with soybean protein hydrolyzate 65799-47-5DP, (γ-Glycidoxypropyl)dimethoxymethylsilane, reaction products with collagen hydrolyzate 175842-24-7P  
 175842-25-8P 176385-25-4DP, reaction products with L-lysine hydrochloride 214358-78-8DP, reaction products with wheat protein hydrolyzate 261919-83-9P 261949-40-0P  
 RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)

(hair-smoothing and -styling preps. containing cationized polymers and silyl peptides)

IT 175842-24-7P

RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (hair-smoothing and -styling preps. containing cationized polymers and silyl peptides)

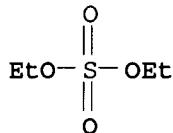
RN 175842-24-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with docosyl 2-methyl-2-propenoate, dodecyl 2-propenoate and hexadecyl 2-methyl-2-propenoate, compd. with diethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 64-67-5

CMF C4 H10 O4 S



CM 2

CRN 154150-92-2

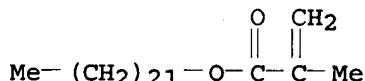
CMF (C26 H50 O2 . C20 H38 O2 . C15 H28 O2 . C8 H15 N O2)x

CCI PMS

CM 3

CRN 16669-27-5

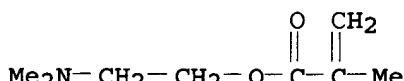
CMF C26 H50 O2



CM 4

CRN 2867-47-2

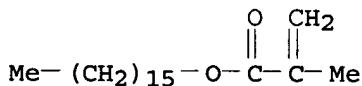
CMF C8 H15 N O2



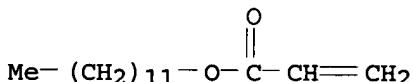
CM 5

CRN 2495-27-4

CMF C20 H38 O2



CM 6

CRN 2156-97-0  
CMF C15 H28 O2

L31 ANSWER 20 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2000:197949 HCAPLUS

DN 132:241655

TI Hair cosmetics containing polysiloxane-oxyalkylene block copolymers and cationic polymers

IN Omura, Takayuki; Nanba, Tomiyuki

PA Shiseido Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2000086460	A2	20000328	JP 1998-280545	19980916
PRAI JP 1998-280545		19980916		

AB Hair cosmetics contain (A) polysiloxane-oxyalkylene block copolymers [R1(SiMe2O)aSiMe2R2O(C2H4O)b(C3H6O)c]x (I; R1, R2 = C2-4 hydrocarbylene; a = 1-1000; b, c = 0-1000; b = c ≠ 0; x = 1-100) and (B) cationic polymers prepared by modification of copolymers from CH2:CR3COXR4NR5R6 (R3 = H, Me; R4 = C1-4 alkylene; R5, R6 = C1-4 alkyl; X = O, NH) 50-90, CH2:CR7CO2R8 (R7 = H, Me; R8 = C12-24 alkyl) 10-50, and other monomers 0-25 weight% with cationization agents YE (Y = Br, Cl, I, C1-4 alkyl sulfate residue; E = C1-12 alkyl, benzyl, C1-3 fatty acid C1-4 alkyl ester residue). A hair preparation containing decamethylcyclopentasiloxane 15.0, I (R1 = R2 = C3H6, a = 60, b = c = 40, x = 10) 3.0, 1,3-butylene glycol 2.0, polyoxyethylene hydrogenated castor oil 2.0, dimethylaminoethyl methacrylate-lauryl acrylate-cetyl methacrylate-behenyl methacrylate copolymer compound with Et2SO4 1.0, EtOH 15.0, perfume, and H2O to 100 weight% showed hair-smoothing, -styling, and -conditioning effects.

IC ICM A61K007-06

ICS A61K007-11

CC 62-3 (Essential Oils and Cosmetics)

IT 175842-24-7P 175842-25-8P 261919-83-9P

261949-40-0P

RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified);

BIOL (Biological study); PREP (Preparation); USES (Uses)

(hair-smoothing and -styling preps. containing polysiloxane-oxyalkylene block copolymers and cationized polymers)

IT 175842-24-7P

RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (hair-smoothing and -styling preps. containing polysiloxane-oxyalkylene block copolymers and cationized polymers)

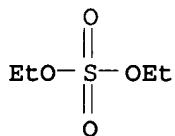
RN 175842-24-7 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with docosyl 2-methyl-2-propenoate, dodecyl 2-propenoate and hexadecyl 2-methyl-2-propenoate, compd. with diethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 64-67-5

CMF C4 H10 O4 S



CM 2

CRN 154150-92-2

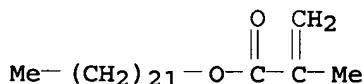
CMF (C26 H50 O2 . C20 H38 O2 . C15 H28 O2 . C8 H15 N O2)x

CCI PMS

CM 3

CRN 16669-27-5

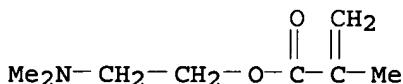
CMF C26 H50 O2



CM 4

CRN 2867-47-2

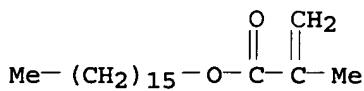
CMF C8 H15 N O2



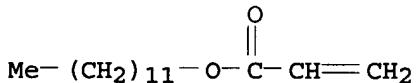
CM 5

CRN 2495-27-4

CMF C20 H38 O2



CM 6

CRN 2156-97-0  
CMF C15 H28 O2

L31 ANSWER 21 OF 53 HCPLUS COPYRIGHT 2006 ACS on STN

AN 2000:197932 HCPLUS

DN 132:227159

TI Nonsticky cosmetic gels containing polymeric thickening agents

IN Kawazoe, Satoyuki

PA Shiseido Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 26 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000086439	A2	20000328	JP 1998-264510	19980918
PRAI	JP 1998-264510		19980918		
AB The cosmetic gels contain 0.01-10.0 weight% cationic thickening agents prepared from monomers CH <sub>2</sub> :CR <sub>1</sub> COABNR <sub>2</sub> R <sub>3</sub> (R <sub>1</sub> = H, Me; R <sub>2</sub> , R <sub>3</sub> = H, C <sub>1</sub> -4 alkyl; A = O, NH; B = linear or branched C <sub>1</sub> -4 alkylene) 15-85, CH <sub>2</sub> :CR <sub>1</sub> R <sub>4</sub> (R <sub>1</sub> = same as above; R <sub>4</sub> = Q, CONH <sub>2</sub> ; p = 3, 4) 0-80.0, CH <sub>2</sub> :CR <sub>1</sub> COAR <sub>5</sub> R <sub>6</sub> [R <sub>1</sub> , A = same as above; R <sub>5</sub> = linear or branched C <sub>1</sub> -17 alkylene, (C <sub>n</sub> H <sub>2n+1</sub> O) <sub>q</sub> ; n = 1-4; q = 1-25; R <sub>6</sub> = H, Me] 1.0-60.0, and crosslinking vinyl monomers 0.1-20.0 weight% and 0.001-5.0 weight% nonionic polymer thickening agents showing viscosity of 1% aqueous solution (30°) ≥500 mPa-s. A hair gel (viscosity 12,000 mPa-s at 30°) containing N,N-dimethylaminoethyl methacrylate-N-vinylpyrrolidone-stearyl acrylate-tripropylene glycol diacrylate copolymer (preparation given) 1.5, hydroxyethyl cellulose (viscosity of 1% aqueous solution at 30° 6000 mPa-s) 0.001, EtOH 20.0, H <sub>3</sub> PO <sub>4</sub> 0.45, vinylpyrrolidone-vinyl acetate copolymer 3.0, vinylpyrrolidone-dimethylaminoethyl methacrylate copolymer cationic derivative 5.0, polyoxyethylene-polyoxypropylene decyltetradecyl ether 1.0, perfume 0.1, plant extract, and H <sub>2</sub> O to 100 weight% was not sticky and spread well on the skin.					
IC	ICM A61K007-00				
	ICS A61K007-00; A61K007-06; A61K007-48; A61K007-032; A61K007-035; A61K007-043; A61K007-047; A61K007-42; A61K007-50				
CC	62-3 (Essential Oils and Cosmetics)				
IT	160364-67-0P				
	RL: BUU (Biological use, unclassified); MOA (Modifier or additive use); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)				
	(nonsticky cosmetic gels containing cationic acrylic polymers and nonionic				

cellulose derivative as thickening agents)

IT 160364-67-0P

RL: BUU (Biological use, unclassified); MOA (Modifier or additive use);  
 PNU (Preparation, unclassified); BIOL (Biological study); PREP  
 (Preparation); USES (Uses)  
 (nonsticky cosmetic gels containing cationic acrylic polymers and nonionic  
 cellulose derivative as thickening agents)

RN 160364-67-0 HCPLUS

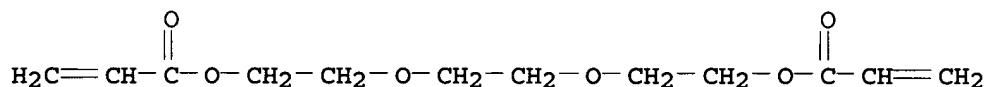
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with  
 1-ethenyl-2-pyrrolidinone, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-  
 ethanediyl)] di-2-propenoate and octadecyl 2-propenoate (9CI) (CA INDEX  
 NAME)

CM 1

CRN 42978-66-5

CMF C15 H24 O6

CCI IDS

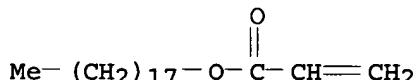


3 ( D1-Me )

CM 2

CRN 4813-57-4

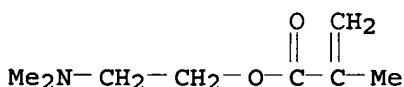
CMF C21 H40 O2



CM 3

CRN 2867-47-2

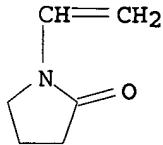
CMF C8 H15 N O2



CM 4

CRN 88-12-0

CMF C6 H9 N O



L31 ANSWER 22 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1998:795079 HCAPLUS  
 DN 130:43117  
 TI Copolymer containing reactive silyl groups, composition containing the same, and method of treatment with the same  
 IN Miyazawa, Kazuyuki; Yanaki, Toshio; Matsuzaki, Fumiaki  
 PA Shiseido Co., Ltd., Japan  
 SO PCT Int. Appl., 105 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9854255	A1	19981203	WO 1998-JP2407	19980601
	W: CN, KR, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	JP 11080277	A2	19990326	JP 1997-249547	19970829
	JP 11080711	A2	19990326	JP 1997-249548	19970829
	JP 11124312	A2	19990511	JP 1997-306442	19971020
	JP 11043415	A2	19990216	JP 1998-55753	19980220
	JP 3664866	B2	20050629		
	EP 918069	A1	19990526	EP 1998-923063	19980601
	R: DE, FR, GB, IT				
	JP 11302129	A2	19991102	JP 1998-151537	19980601
	JP 3670841	B2	20050713		
	JP 11302140	A2	19991102	JP 1998-151539	19980601
	TW 550271	B	20030901	TW 1998-87108518	19980601
	US 6326011	B1	20011204	US 1999-230582	19990128
	KR 2000029722	A	20000525	KR 1999-700825	19990130
PRAI	JP 1997-157675	A	19970530		
	JP 1997-157676	A	19970530		
	JP 1997-157677	A	19970530		
	JP 1997-249547	A	19970829		
	JP 1997-249548	A	19970829		
	JP 1997-306442	A	19971020		
	JP 1998-55751	A	19980220		
	JP 1998-55752	A	19980220		
	JP 1998-55753	A	19980220		
	WO 1998-JP2407	W	19980601		

AB Disclosed is a composition containing a copolymer having silyl groups each having at least one reactive functional group bonded thereto. The copolymer preferably comprises a monomer which has an alkyl (meth)acrylate and a siloxane-containing (meth)acrylic ester as constituent monomers. The film forming method of the invention comprises hydrolyzing the composition on a material to be treated to crosslink mols. of the copolymer to thereby form a coating of the crosslinked polymer with excellent resistance to cleaning. The coating is effective in modifying the nature of hairs, improving makeup retention, and protecting the skin and in imparting water repellency, unsusceptibility to fouling, suitability for sizing, and crease resistance to fibers, and enables a cosmetic pack preparation of

peeling-off type to be improved in skin-cleaning ability, applicability, and strippability and to have a heightened film strength. A hair spray contained 3-(trimethoxysilyl)propyl methacrylate-Me methacrylate copolymer 1, ethanol 47, ethoxylated hydrogenated castor oils 1, octyl palmitate 1, perfumes q.s., and LPG 50 parts.

IC ICM C08L043-04

ICS C08L083-07; C08L033-06; C08L033-14; C08F030-08; C08F020-10;  
C08F020-34; C08F290-06; C08G077-20; A61K007-00; A61K007-48;  
C09K003-18; D06M015-643; D06M013-513

CC 62-3 (Essential Oils and Cosmetics)

IT 26936-30-1P, Methyl methacrylate-3-(trimethoxysilyl)propyl methacrylate

copolymer 75944-16-0P 152244-88-7P 182558-92-5P 190894-76-9P

216776-83-9P 216776-87-3P 216776-95-3P 216777-00-3P

216777-05-8P 216777-11-6P 216777-18-3P

216777-24-1P 216777-28-5P 216777-33-2P

216777-39-8P 216777-44-5P 216777-52-5P 216777-56-9P

216777-64-9P

RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); BIOL  
(Biological study); PREP (Preparation); USES (Uses)(methacrylate copolymers containing reactive silyl groups for cosmetic  
uses)

IT 216777-05-8P

RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); BIOL  
(Biological study); PREP (Preparation); USES (Uses)(methacrylate copolymers containing reactive silyl groups for cosmetic  
uses)

RN 216777-05-8 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-,

chloride, polymer with methyl 2-methyl-2-propenoate, 3-

(triethoxysilyl)propyl 2-methyl-2-propenoate and 3-[3,3,3-trimethyl-1,1-

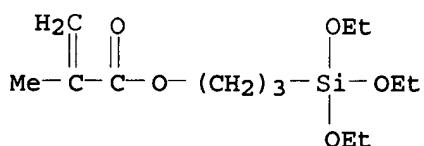
bis[(trimethylsilyl)oxy]disiloxanyl]propyl 2-methyl-2-propenoate (9CI)

(CA INDEX NAME)

CM 1

CRN 21142-29-0

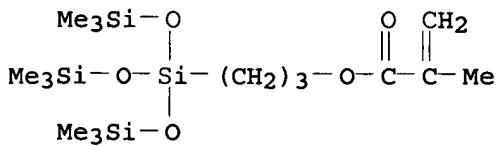
CMF C13 H26 O5 Si



CM 2

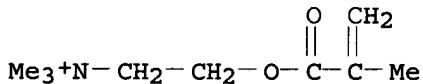
CRN 17096-07-0

CMF C16 H38 O5 Si4



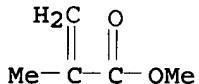
CM 3

CRN 5039-78-1  
 CMF C9 H18 N O2 . Cl

● Cl<sup>-</sup>

CM 4

CRN 80-62-6  
 CMF C5 H8 O2



RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 23 OF 53 HCPLUS COPYRIGHT 2006 ACS on STN  
 AN 1998:764104 HCPLUS  
 DN 130:29046  
 TI Hair-care preparations containing N-vinylcarboxamide copolymers  
 IN Miyagawa, Satsuki; Hinata, Takehiko; Yamaguchi, Tetsuhiko  
 PA Showa Denko Kabushiki Kaisha, Japan; Kose Corporation  
 SO Eur. Pat. Appl., 20 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 878185	A2	19981118	EP 1998-108719	19980513
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 11029445	A2	19990202	JP 1997-297089	19971029
CA 2237540	AA	19981116	CA 1998-2237540	19980513
CN 1199607	A	19981125	CN 1998-108474	19980515
PRAI JP 1997-127366	A	19970516		
AB Disclosed is a hair-care preparation containing a homopolymer or copolymer comprising a repeating unit which is derived from an N-vinylcarboxamide monomer (I) wherein R1 and R2 independently are a hydrogen atom, a Me group or an Et group, R3 and R4 independently are a hydrogen atom or a Me group, or a copolymer of the repeating unit represented by I and one or more other repeating units. The hair-care preparation has setting retaining power, gives satisfactory hair touch and feeling during and after use, and exhibits good resistance to moisture and good detergency upon shampooing.				

N-vinylcarboxamide 12, N-vinylpyrrolidone 38, Et acetate 450, and azobisisobutyronitrile were mixed and refluxed for 3 h under N for polymerization to obtain 42.5 g polymer solid which was filtered, separated, and dried. A styling mousse contained above polymer 3, ethanol 10, propellant 3, perfume and water q.s. 100%.

IC ICM A61K007-06  
 CC 62-3 (Essential Oils and Cosmetics)  
 Section cross-reference(s): 35, 38  
 IT 7748-25-6DP, Potassium chloroacetate, reaction product with amino containing polymer 28408-65-3P, Poly(N-Vinylacetamide) 80512-26-1P 113655-05-3P  
 114239-36-0P 174023-68-8P 216163-60-9P 216163-61-0P  
 216163-62-1DP, quaternized 216163-62-1P 216163-63-2P  
 216163-64-3P 216163-65-4P 216163-66-5P  
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (hair-care preps. containing vinylcarboxamide copolymers)  
 IT 216163-61-0P  
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (hair-care preps. containing vinylcarboxamide copolymers)  
 RN 216163-61-0 HCPLUS  
 CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with N-ethenylacetamide (9CI) (CA INDEX NAME)

CM 1

CRN 5202-78-8

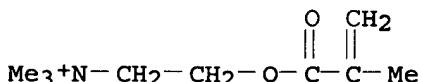
CMF C4 H7 N O



CM 2

CRN 5039-78-1

CMF C9 H18 N O2 . Cl



● Cl<sup>-</sup>

L31 ANSWER 24 OF 53 HCPLUS COPYRIGHT 2006 ACS on STN  
 AN 1998:650379 HCPLUS  
 DN 129:320966  
 TI Cosmetics  
 IN Watanabe, Hiroshi; Kakogi, Hiroyuki; Gomyo, Hideyuki  
 PA Shiseido Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 11 pp.  
 CODEN: JKXXAF  
 DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 10265330	A2	19981006	JP 1997-85887	19970319
PRAI JP 1997-85887		19970319		

AB Cosmetics [lotions, emulsions] showing antimicrobial stability and containing no preservatives comprise: [A] copolymers of amine-containing acrylic monomers, [meth]acryloyl monomers and vinyl monomers [B] 2-phenoxyethanol, and [C] other ingredients. A lotion contained glycerin 2.0, POE nonylphenyl ether 0.5, perfumes 0.03, 2-phenoxyethanol 0.5, the copolymers 0.1, lactic acid 0.1 and ion-exchanged water to 100 weight%.

IC ICM A61K007-00

ICS A61K007-00; A61K007-02

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s) : 38

IT 160364-67-0P 168695-47-4P

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(cosmetics)

IT 160364-67-0P

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(cosmetics)

RN 160364-67-0 HCAPLUS

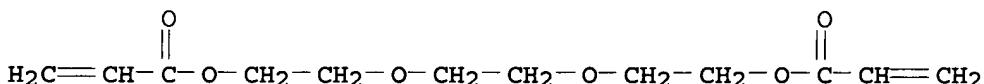
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] di-2-propenoate and octadecyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 42978-66-5

CMF C15 H24 O6

CCI IDS

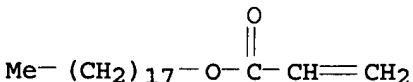


3 ( D1-Me )

CM 2

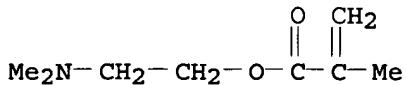
CRN 4813-57-4

CMF C21 H40 O2



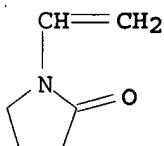
CM 3

CRN 2867-47-2  
 CMF C8 H15 N O2



CM 4

CRN 88-12-0  
 CMF C6 H9 N O



L31 ANSWER 25 OF 53 HCPLUS COPYRIGHT 2006 ACS on STN

AN 1998:603043 HCPLUS

DN 129:293670

TI Hair-setting compositions

IN Oomura, Takayuki

PA Shiseido Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10245325	A2	19980914	JP 1997-63803	19970303
PRAI	JP 1997-63803		19970303		
AB Hair-setting compns. showing excellent hair-setting effects contain: [A] amphoteric betainized dialkylaminoalkylacrylate copolymer having mol. weight of 50,000-500,000 and [B] specific cationic copolymers such as cationized dimethylaminoethyl (meth)acrylate-lauryl (meth)acrylate-cetyl (meth)acrylate copolymer. Thus, a hair cream contained decamethylcyclohexasiloxane 25.0, dimethylpolysloxane 6.0, glycerin 3.0, ethylated hardened castor oil 3.0, amphoteric polymers 3.0, cationized resin solution 3.0, ethanol 10.0, polyvinyl alc. 1.0, ion-exchanged water and perfumes to 100 weight%.					
IC	62-3 (Essential Oils and Cosmetics)				
CC	Section cross-reference(s): 38				
IT	64-67-5P, Diethyl sulfate 26316-49-4P, Dimethylaminoethyl methacrylate-stearyl methacrylate copolymer 154150-92-2P 154150-93-3P 166596-97-0P 213689-52-2P 214122-08-4P 214122-11-9P 214122-13-1P				
	RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (cationized; hair-setting compns.)				
IT	26316-49-4P, Dimethylaminoethyl methacrylate-stearyl methacrylate				

copolymer

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (cationized; hair-setting compns.)

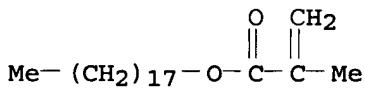
RN 26316-49-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with octadecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 32360-05-7

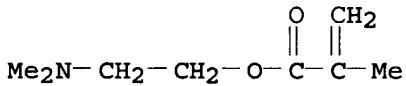
CMF C22 H42 O2



CM 2

CRN 2867-47-2

CMF C8 H15 N O2



L31 ANSWER 26 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1997:562220 HCAPLUS

DN 127:225104

TI Cool gel cosmetics

IN Hanada, Takuya

PA Shiseido Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09208452	A2	19970812	JP 1996-332749	19961128
	JP 3469416	B2	20031125		

PRAI JP 1995-334000 A 19951129

AB Cool gel cosmetics comprise cationic thickeners, refrigerants, ethanol and optionally powders. A massage cool gel contained glycerin 20.0, ethanol 30.0, N,N-dimethylaminoethyl methacrylate, N-vinyl pyrrolidone-stearyl acrylate-tripropylene glycol diacrylate copolymer as cationic thickener 3.0, lactic acid 1.0, 1-isomenthol 1.0, polyethylene powder 3.0, ethylene-methylsiloxane copolymer 2.0, iso-Pr myristate 2.0, squalane 1.0 perfumes and ion-exchanged water to 100 weight%. The preps. were nonsticky.

IC ICM A61K007-48

ICS A61K007-00

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 38

IT 64-17-5P, Ethanol, biological studies 76-22-2P, Camphor 89-48-5P,  
 Methyl acetate 89-78-1P, Menthol 470-82-6P, 1,8-Cineol 3623-52-7P,  
 Isomenthol 160364-67-0P

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL  
 (Biological study); PREP (Preparation); USES (Uses)  
 (cool gel cosmetics)

IT 160364-67-0P

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL  
 (Biological study); PREP (Preparation); USES (Uses)  
 (cool gel cosmetics)

RN 160364-67-0 HCAPLUS

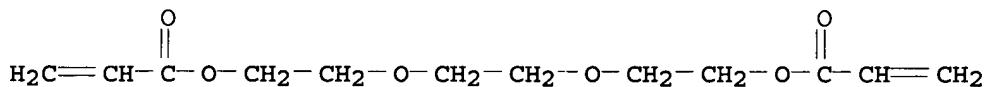
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with  
 1-ethenyl-2-pyrrolidinone, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-  
 ethanediyl)] di-2-propenoate and octadecyl 2-propenoate (9CI) (CA INDEX  
 NAME)

CM 1

CRN 42978-66-5

CMF C15 H24 O6

CCI IDS

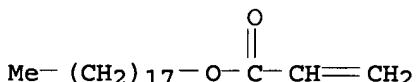


3 ( D1-Me )

CM 2

CRN 4813-57-4

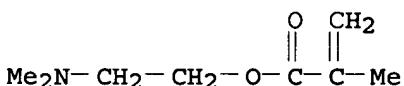
CMF C21 H40 O2



CM 3

CRN 2867-47-2

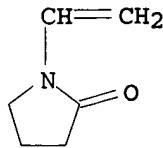
CMF C8 H15 N O2



CM 4

CRN 88-12-0

CMF C6 H9 N O



L31 ANSWER 27 OF 53 HCPLUS COPYRIGHT 2006 ACS on STN

AN 1997:537399 HCPLUS

DN 127:140183

TI Hair-setting compositions

IN Omura, Takayuki

PA Shiseido Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 09151117	A2	19970610	JP 1995-334001	19951129
PRAI JP 1995-334001		19951129		

AB Hair-setting compns. showing excellent styling activity comprise cationic thickeners and organosilicones having  $\text{R}_7\text{nSiO}(4-\text{n})/2$  units [ $\text{R}_7 = \text{C}_1\text{-6}$  hydrocarbons or Ph; n = 1.0-1.8] as main ingredients. A hair cream contained decamethylcyclohexasiloxane 25.0, dimethylpolysiloxane (n = 10,000) 6.0, organosilicon 5.0, ethoxylated hardened castor oil 2.0, glycerin 3.0, cationic thickeners 1.0, ethanol 10.0, polyvinyl alc. 1.0, maleic acid 0.4, perfumes and ion-exchanged water to 100 weight%.

IC ICM A61K007-06

ICS A61K007-11

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 38

IT 79-10-7DP, Acrylic acid, copolymers with methacrylic acid esters  
79-41-4DP, MethAcrylic acid, esters, copolymers with acrylic acid**160364-67-0P**RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(hair-setting compns.)**IT 160364-67-0P**RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(hair-setting compns.)

RN 160364-67-0 HCPLUS

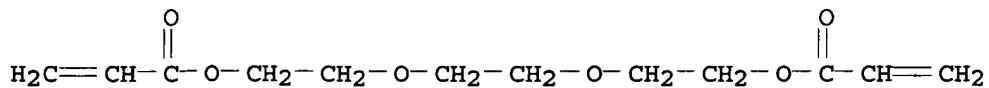
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] di-2-propenoate and octadecyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 42978-66-5

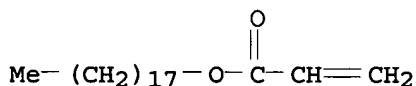
CMF C15 H24 O6

CCI IDS

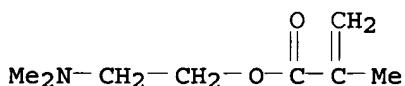


3 ( D1-Me )

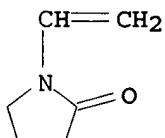
CM 2

CRN 4813-57-4  
CMF C21 H40 O2

CM 3

CRN 2867-47-2  
CMF C8 H15 N O2

CM 4

CRN 88-12-0  
CMF C6 H9 N OL31 ANSWER 28 OF 53 HCPLUS COPYRIGHT 2006 ACS on STN  
AN 1997:537398 HCPLUS

DN 127:140182

TI Hair preparations

IN Omura, Takayuki; Muraoka, Shihō; Miyahara, Reiji

PA Shiseido Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.

KIND DATE

APPLICATION NO.

DATE

PI JP 09151118 A2 19970610 JP 1995-334002 19951129  
 PRAI JP 1995-334002 19951129

AB Hair prepns. comprise: (A) polysiloxane-oxyalkylene copolymers and (B) cationic thickeners (acrylic copolymers). A hair cream contained decamethylsiloxane 25.0, polysiloxane-oxyalkylene copolymer 6.0, glycerin 3.0, ethoxylated hardened castor oil 3.0, cationic thickener such as N,N-Dimethylaminoethyl methacrylate-methacrylamide-stearyl acrylate-tripropylene glycol diacrylate copolymer 3.0, ethanol 10.0, polyvinyl alc. 1.0, maleic acid 0.5, perfumes and ion-exchanged water to 100 weight%. Hair appeared shiny and soft after treatment and showed good hair wave-holding activity. The prepns. also restored damaged hair.

IC ICM A61K007-06  
 ICS A61K007-11

CC 62-3 (Essential Oils and Cosmetics)  
 Section cross-reference(s): 38

IT 160364-67-0P 168695-46-3P 168695-47-4P  
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (hair prepns.)

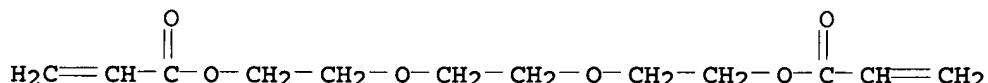
IT 160364-67-0P  
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (hair prepns.)

RN 160364-67-0 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] di-2-propenoate and octadecyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

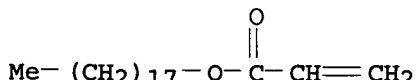
CRN 42978-66-5  
 CMF C15 H24 O6  
 CCI IDS



3 ( D1-Me )

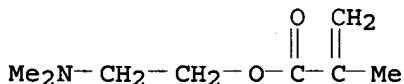
CM 2

CRN 4813-57-4  
 CMF C21 H40 O2



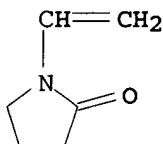
CM 3

CRN 2867-47-2  
 CMF C8 H15 N O2



CM 4

CRN 88-12-0  
 CMF C6 H9 N O



L31 ANSWER 29 OF 53 HCPLUS COPYRIGHT 2006 ACS on STN  
 AN 1997:506069 HCPLUS  
 DN 127:126348  
 TI Hair compositions containing combination of a polyampholyte polymer and a cationic polymer  
 IN Cauwet-Martin, Daniele; Lion, Bertrand; Mondet, Jean  
 PA L'Oreal, Fr.; Cauwet-Martin, Daniele; Lion, Bertrand; Mondet, Jean  
 SO PCT Int. Appl., 32 pp.  
 CODEN: PIXXD2

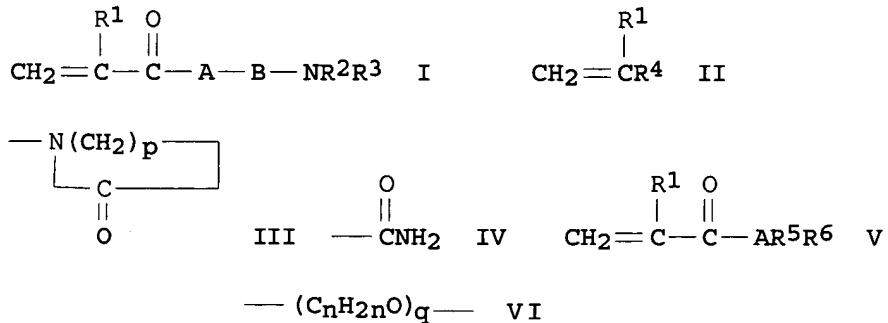
DT Patent  
 LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9723193	A1	19970703	WO 1996-FR1831	19961119
	W: AL, AM, AU, AZ, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	FR 2742657	A1	19970627	FR 1995-15290	19951221
	FR 2742657	B1	19980130		
	AU 9676302	A1	19970717	AU 1996-76302	19961119
	EP 869766	A1	19981014	EP 1996-939151	19961119
	EP 869766	B1	20011121		
	R: DE, ES, FR, GB, IT				
	ES 2168519	T3	20020616	ES 1996-939151	19961119
PRAI	FR 1995-15290	A	19951221		
	WO 1996-FR1831	W	19961119		
AB	To a composition for the treatment of keratinic materials, particularly human hair, containing in a cosmetically and/or dermatol. acceptable aqueous medium at least (1) a polyampholyte polymer comprised of at least one ethylenically unsatd. monomer and comprising in the chain or sideways of the chain				



PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 09066095	A2	19970311	JP 1995-224885	
PRAI JP 1995-224885		19950901		19950901
GI				



AB The solns. and gels contain fragrant 0.5-30.0, surfactants 0.5-50.0, water 20.0-99.0, EtOH 0-30.0, and a cationic tackifier 0.05-10.0%; where the tackifier is a copolymer of monomers including an amino group containing (meth)acrylic monomer I ( $\text{R}^1 = \text{H}$  or  $\text{Me}$ ,  $\text{R}^2$  and  $\text{R}^3 = \text{H}$ ,  $\text{Me}$ ,  $\text{Et}$ , or  $\text{tert-Bu}$ ,  $\text{A} = \text{O}$  or  $\text{NH}$ ,  $\text{B} = \text{linear or branched C1-4 alkenyl group}$ ) 15.0-85.0, a vinyl monomer II ( $\text{R}^4 = \text{III}$  with  $p = 3$  or  $4$  or  $\text{IV}$ ) 0-80.0, an acryloyl group containing monomer V ( $\text{R}^5 = \text{liners or branched C1-17 alkenyl group}$  or VI with  $n = 1-4$  integer and  $q = 1-25$  integer and  $\text{R}^6 = \text{H}$  or  $\text{Me}$ ) 1.0-60.0, and a crosslinking vinyl monomer.

IC ICM A61L009-01

ICS A61K007-46; A61L009-04; C09K003-00

CC 62-5 (Essential Oils and Cosmetics)

Section cross-reference(s): 37, 59

IT Odor and Odorous substances

Perfumes

(cationic tackifiers for fragrant solns. and gels)

IT 160364-67-0P

RL: IMF (Industrial manufacture); NUU (Other use, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(crosslinked; cationic tackifiers for fragrant solns. and gels)

IT 160364-67-0P

RL: IMF (Industrial manufacture); NUU (Other use, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(crosslinked; cationic tackifiers for fragrant solns. and gels)

RN 160364-67-0 HCPLUS

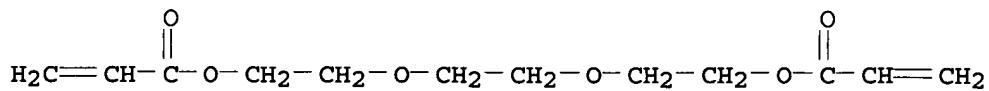
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1-ethenyl-2-pyrrolidinone, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] di-2-propenoate and octadecyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 42978-66-5

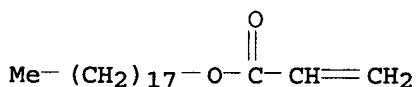
CMF C15 H24 O6

CCI IDS

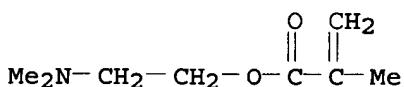


3 ( D1-Me )

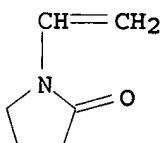
CM 2

CRN 4813-57-4  
CMF C21 H40 O2

CM 3

CRN 2867-47-2  
CMF C8 H15 N O2

CM 4

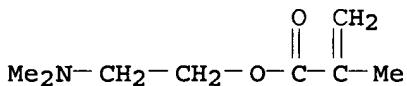
CRN 88-12-0  
CMF C6 H9 N O

L31 ANSWER 31 OF 53 HCPLUS COPYRIGHT 2006 ACS on STN  
 AN 1997:204055 HCPLUS  
 DN 126:190726  
 TI Preparation of amine-oxide-containing vinyl polymers for hair compositions  
 IN Hayama, Kazuhide; Kitani, Yasuo; Hiwatashi, Tomoaki  
 PA Mitsubishi Chemical Corporation, Japan  
 SO Eur. Pat. Appl., 21 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 754444	A2	19970122	EP 1996-250161	19960718
	EP 754444	A3	19970319		
	EP 754444	B1	19980527		
	R: DE, FR, GB, IT				
	US 6123933	A	20000926	US 1996-682239	19960717
	CN 1142935	A	19970219	CN 1996-106189	19960719
	JP 10072323	A2	19980317	JP 1996-190623	19960719
	JP 3520674	B2	20040419		
PRAI	JP 1995-204027	A	19950719		
	JP 1996-163131	A	19960624		
AB	A hair cosmetic composition comprises an amine-oxide-containing water-soluble polymethacrylate having an average mol. weight of 5000-1,000,000. The composition has excellent setting force, conditioning effects and hair-washing property and is free from stickiness. Thus, 30 parts N,N-dimethylaminoethyl methacrylate and 70 parts stearyl methacrylate were copolymerd. in 150 parts EtOH in the presence of 0.6 part 2,2'-azobisisobutyronitrile. A 31% aqueous solution of H <sub>2</sub> O <sub>2</sub> was added to the above polymer to convert it to an amine oxide-containing polymer (I) with an average mol. weight of 100,000. A hair rinse contained stearyltrimethylammonium chloride 1.5, cetanol 2, I 1.5, perfume 0.2 and water to 100%.				
IC	ICM A61K007-06				
CC	62-3 (Essential Oils and Cosmetics) Section cross-reference(s): 37				
IT	<b>25154-86-3DP</b> , Poly(N,N-Dimethylaminoethyl methacrylate), oxidized <b>26316-49-4DP</b> , oxidized <b>26658-83-3DP</b> , oxidized <b>110563-56-9DP</b> , oxidized <b>113190-44-6DP</b> , oxidized <b>187538-64-3DP</b> , oxidized <b>187538-65-4DP</b> , oxidized <b>187538-66-5DP</b> , oxidized <b>187538-67-6DP</b> , oxidized RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of amine-oxide-containing vinyl polymers for hair compns.)				
IT	<b>25154-86-3P</b> , Poly(N,N-Dimethylaminoethyl methacrylate) <b>26316-49-4P</b> , N,N-Dimethylaminoethyl methacrylate-stearyl methacrylate copolymer <b>26658-83-3P</b> , Butyl methacrylate-N,N-dimethylaminoethyl methacrylate copolymer <b>110563-56-9P</b> , tert-Butyl methacrylate-N,N-dimethylaminoethyl methacrylate copolymer <b>113190-44-6P</b> , 2-(Dimethylamino)ethyl methacrylate-Light Ester FM 108 copolymer <b>187538-64-3P</b> , tert-Butyl methacrylate-N,N-dimethylaminoethyl methacrylate-N-Vinyl-2-pyrrolidinone copolymer <b>187538-65-4P</b> <b>187538-66-5P</b> , Butyl acrylate-N,N-dimethylaminoethyl methacrylate-octyl methacrylate copolymer <b>187538-67-6P</b> , N,N-Dimethylaminoethyl methacrylate-ethyl methacrylate-stearyl methacrylate copolymer RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of amine-oxide-containing vinyl polymers for hair compns.)				
IT	<b>25154-86-3DP</b> , Poly(N,N-Dimethylaminoethyl methacrylate), oxidized RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); PREP (Preparation); PREP (Preparation); USES (Uses) (preparation of amine-oxide-containing vinyl polymers for hair compns.)				
RN	25154-86-3 HCPLUS				
CN	2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, homopolymer (9CI) (CA INDEX NAME)				

CM 1

CRN 2867-47-2  
CMF C8 H15 N O2



L31 ANSWER 32 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1996:248178 HCAPLUS

DN 124:298411

TI Hair-setting preparations containing siloxanes and cationic polymers

IN Oomura, Takayuki

PA Shiseido Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 08026938	A2	19960130	JP 1994-182893	19940712
PRAI JP 1994-182893		19940712		

AB Hair-setting preps., which give gloss and cause smooth hair-combing and show good conditioning (softening) effect, contain R12R2SiO[SiR12O]<sub>m</sub>[SiR1R3O]<sub>n</sub>SiR12R2 [I: R1 = Me (partially Ph); R2 = R3, Me, OH; R3 = R4Z; R4 = C3-6 bivalent alkylene; Z = NR52, N+R53A-, NR5(CH2)aNR52, NR5(CH2)aN+R53A-, NR5(CH2)aNR5COR6; R5= H, C1-4 alkyl; R6 = C1-4 alkyl; A = Cl, Br, iodine; a = 2-6; m ≥ 1; n ≥ 0; m + n = 3000-20,000; n/m = ≤1/500] and cationic polymers prepared by cationization with YE (Y = Br, Cl, iodine, C1-4 alkyl sulfate; E = C1-12 alkyl, PhCH<sub>2</sub>, residue of C1-3 fatty acid C1-4 alkyl esters) of copolymers of CH<sub>2</sub>:CR<sub>7</sub>COXR<sub>8</sub>NR<sub>9</sub>R<sub>10</sub> (R<sub>7</sub> = H, Me; R<sub>8</sub> = C1-4 alkylene; R<sub>9</sub>, R<sub>10</sub> = C1-4 alkylene; X = O, NH) 50-90, CH<sub>2</sub>:CR<sub>11</sub>CO<sub>2</sub>R<sub>12</sub> (R<sub>11</sub> = H, Me; R<sub>12</sub> = C12-24 alkyl) 10-50, and other copolymerizable monomers 0-25%. A hair preparation was formulated containing decamethylcyclopentasiloxane 15.0, di-Me siloxane 3.0, I [R<sub>1</sub> = R<sub>2</sub> = Me, R<sub>3</sub> = (CH<sub>2</sub>)<sub>3</sub>NMe<sub>2</sub>, m = 5000, n = 5] 5.0, polyoxyethylene hydrogenated castor oil 2.0, 1,3-butylene glycol 2.0, behenyl methacrylate-cetyl methacrylate-dimethylaminoethyl methacrylate-lauryl acrylate copolymer di-Et sulfate salt 5.0, EtOH 15.0, H<sub>2</sub>O to 100%, and perfume.

IC ICM A61K007-06

CC 62-3 (Essential Oils and Cosmetics)

IT 175842-24-7P 175842-25-8P 175842-26-9P

175842-28-1P

RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation); USES (Uses)

(hair-setting preps. containing (amino- or ammonium-modified) siloxanes and cationic polymers)

IT 175842-24-7P

RL: BUU (Biological use, unclassified); PNU (Preparation, unclassified);

BIOL (Biological study); PREP (Preparation); USES (Uses)

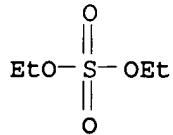
(hair-setting preps. containing (amino- or ammonium-modified) siloxanes and cationic polymers)

RN 175842-24-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with docosyl 2-methyl-2-propenoate, dodecyl 2-propenoate and hexadecyl 2-methyl-2-propenoate, compd. with diethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 64-67-5  
 CMF C4 H10 O4 S

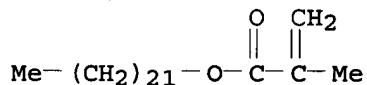


CM 2

CRN 154150-92-2  
 CMF (C26 H50 O2 . C20 H38 O2 . C15 H28 O2 . C8 H15 N O2)x  
 CCI PMS

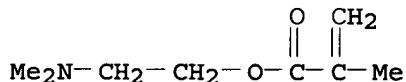
CM 3

CRN 16669-27-5  
 CMF C26 H50 O2



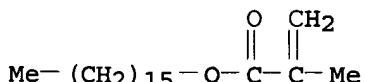
CM 4

CRN 2867-47-2  
 CMF C8 H15 N O2



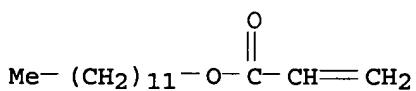
CM 5

CRN 2495-27-4  
 CMF C20 H38 O2



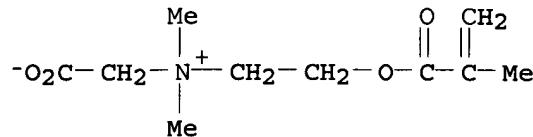
CM 6

CRN 2156-97-0  
 CMF C15 H28 O2

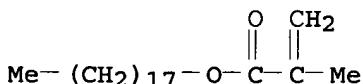


L31 ANSWER 33 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1995:746170 HCAPLUS  
 DN 123:122718  
 TI Novel emulsifiers containing a compound prepared from amphoteric polymers and higher fatty acids  
 IN Shiojima, Yoshihiro; Nakama, Yasunari; Kanbe, Tetsuya; Yamaguchi, Michihiro  
 PA Shiseido Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 10 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 07100357	A2	19950418	JP 1993-245806	19930930
		JP 3444366	B2	20030908
PRAI JP 1993-245806			19930930	
AB Emulsifiers contain a novel compound (markush given) prepared from amphoteric polymers and higher fatty acids. An oil-water-type hair rinse contained N-methacryloylethyl-N,N-dimethylammonium.α-N-dimethylcarboxybetaine-stearyl metharylate copolymer isostearic acid complex 4, oleic acid 2, liquid paraffin 10, cetyl-2-ethylhexanoate 2, glycerol 5, perfumes 0.2, methylparaben 0.1, and purified water to 100 weight%. The preparation was stable and showed low irritability.				
IC ICM B01F017-52				
CC ICS A61K007-00; A61K007-06; C08L033-00				
CC 62-3 (Essential Oils and Cosmetics)				
IT Section cross-reference(s): 38				
IT 97-88-1DP, Butyl methacrylate, copolymer with N-methacryloylethyl-N,N-dimethylammonium.α-N-dimethylcarboxybetaine and stearyl compound, isostearic acid salt 138204-19-0DP, isostearic acid complexes 166596-97-0P				
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (emulsifiers containing compound prepared from amphoteric polymers and higher fatty acids)				
IT 138204-19-0DP, isostearic acid complexes				
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (emulsifiers containing compound prepared from amphoteric polymers and higher fatty acids)				
RN 138204-19-0 HCAPLUS				
CN Ethanaminium, N-(carboxymethyl)-N,N-dimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, inner salt, polymer with octadecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)				
CM 1				
CRN 62723-61-9				
CMF C10 H17 N O4				



CM 2

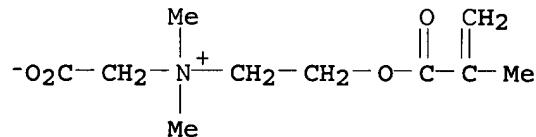
CRN 32360-05-7  
CMF C22 H42 O2

L31 ANSWER 34 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1995:746169 HCAPLUS  
 DN 123:122742  
 TI a compound prepared from amphoteric polymers and higher fatty acids as emulsifier  
 IN Shiojima, Yoshihiro; Nakama, Yasunari; Yamaguchi, Michihiro  
 PA Shiseido Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

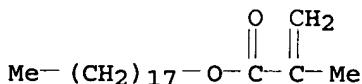
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 07100356	A2	19950418	JP 1993-245805	19930930
PRAI JP 1993-245805		19930930		
AB Emulsion compns. contain a novel compound (markush given) prepared from amphoteric polymers and higher fatty acids as emulsifier. An oil-in-water-type cream contained N-methacryloyloethyl-N,N-dimethylammonium.α-N-dimethylcarboxybetaine-stearyl metharylate copolymer isostearic acid complex 4, oleic acid 2, liquid paraffin 10, cetyl-2-ethylhexanoate 2, glycerol 5, perfumes 0.2, methylparaben 0.1, and purified water to 100 weight%. The preps. were stable and nonirritating.				
IC ICM B01F017-52				
CC ICS C08F016-36; C08F020-18; C08F020-36; C08F020-60; C08K005-09				
IT 62-4 (Essential Oils and Cosmetics)				
IT 138204-19-0DP, isostearic acid complexes				
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)				
(emulsion compns. containing a compound prepared from amphoteric polymers and higher fatty acids)				
IT 138204-19-0DP, isostearic acid complexes				
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)				
(emulsion compns. containing a compound prepared from amphoteric polymers and higher fatty acids)				
RN 138204-19-0 HCAPLUS				
CN Ethanaminium, N-(carboxymethyl)-N,N-dimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, inner salt, polymer with octadecyl 2-methyl-2-propenoate				

(9CI) (CA INDEX NAME)

CM 1

CRN 62723-61-9  
CMF C10 H17 N O4

CM 2

CRN 32360-05-7  
CMF C22 H42 O2

L31 ANSWER 35 OF 53 HCPLUS COPYRIGHT 2006 ACS on STN

AN 1995:584288 HCPLUS

DN 122:322217

TI Water-based nail cosmetics containing polymer emulsions

IN Sugawara, Susumu; Hosokawa, Hitoshi; Nakamura, Koichi; Sawada, Michitaka; Tsutsumi, Takehiro

PA Kao Corp, Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07069833	A2	19950314	JP 1993-218274	19930902
	JP 2534194	B2	19960911		
PRAI	JP 1993-218274		19930902		
AB	The nail cosmetics contain aqueous emulsions of polymers with average mol. weight (Mw) ≤40,000 and polymers with average mol. weight ≥50,000 at sum of both polymers 5-60 weight% as a solid. The nail cosmetics show high gloss, adhesion, water proofness, and film strength and are free from inflammability and solvent odor. Emulsion A containing Me methacrylate-Bu acrylate-N,N-dimethylaminoethyl methacrylate copolymer (preparation given; Mw 30,000) 80, emulsion B containing the same polymer (preparation given; Mw 200,000) as in A 20, red pigment R-221 3, H2O 10, hydroxyethyl cellulose 0.5, perfume 0.1, antiseptic 0.1, and silicone antifoaming agent were mixed to give a nail enamel.				
IC	ICM A61K007-043				
	ICS A61K007-00				
CC	62-4 (Essential Oils and Cosmetics)				
IT	25153-46-2P, 2-Ethylhexyl acrylate-styrene copolymer 35166-02-0P				
	RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); BIOL				

(Biological study); PREP (Preparation); USES (Uses)  
 (water-based nail cosmetics containing polymer emulsions)

IT 35166-02-0P

RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); BIOL  
 (Biological study); PREP (Preparation); USES (Uses)  
 (water-based nail cosmetics containing polymer emulsions)

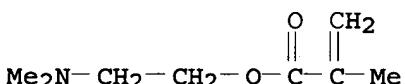
RN 35166-02-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with  
 butyl 2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 2867-47-2

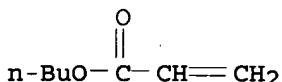
CMF C8 H15 N O2



CM 2

CRN 141-32-2

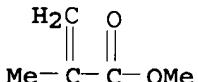
CMF C7 H12 O2



CM 3

CRN 80-62-6

CMF C5 H8 O2



L31 ANSWER 36 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1995:435901 HCAPLUS

DN 122:222450

TI Preparation of cationic thickeners for cosmetics

IN Uchama, Jujiro; Matsumoto, Junichi

PA Osaka Juki Kagaku Kogyo Kk, Japan

SO Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

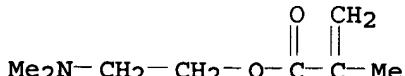
DT Patent

LA Japanese

FAN.CNT 1

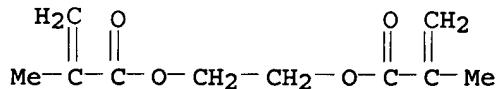
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
PI JP 06316510	A2	19941115	JP 1994-75138	19940413

JP 3032113 B2 20000410  
 PRAI JP 1994-75138 19940413  
 GI For diagram(s), see printed CA Issue.  
 AB Cationic thickeners, useful for cosmetics and fragrant compns., are prepared by polymerization of CH<sub>2</sub>:CR<sub>1</sub>COABNR<sub>2</sub>R<sub>3</sub> (R<sub>1</sub> = H, Me; R<sub>2</sub>, R<sub>3</sub> = H, Me, Et, CMe<sub>3</sub>; A = O, NH; B = linear or branched C<sub>1</sub>-4 alkylene) 15-85, CH<sub>2</sub>:CR<sub>1</sub>R<sub>4</sub> (R<sub>1</sub> = same as above; R<sub>4</sub> = Q, CONH<sub>2</sub>; p = 3, 4) 0-80, CH<sub>2</sub>:CR<sub>1</sub>COAR<sub>5</sub>R<sub>6</sub> [R<sub>1</sub>, A = same as above; R<sub>5</sub> = C<sub>1</sub>-17 linear or branched alkylene, (C<sub>2</sub>H<sub>4</sub>O)<sub>q</sub>, (C<sub>3</sub>H<sub>6</sub>O)<sub>r</sub>; q, r = 1-25; R<sub>6</sub> = H, Me] 1-60, and crosslinkable vinyl monomers 0.1-20% in nonaq. solvents by heating under inert gas, followed by powdering the reaction solns. N,N-dimethylaminoethyl methacrylate 39, N-vinylpyrrolidone 58.5, methoxypolyethylene glycol methacrylate 2.5, ethylene glycol dimethacrylate 2, and AIBN 0.3 g were refluxed in EtOH-cyclohexane mixture at 80° under N for .apprx.10 h, condensed, dried, and pulverized to give cationic thickener (41,000 cP, in 2% aqueous solution), which was mixed with hair-setting polymers to form a hair preparation gel.  
 IC ICM A61K007-06  
 ICS A61K007-11; A61K007-46; A61L009-01; C09K003-00  
 CC 62-1 (Essential Oils and Cosmetics)  
 Section cross-reference(s): 35  
 IT Cosmetics  
 Hair preparations  
 Perfumes  
 Thickening agents  
 (preparation of poly(meth)acrylates as thickeners for cosmetic and fragrance compns.)  
 IT 89054-55-7P 150265-73-9P 150265-74-0P  
 150265-75-1P 150265-76-2P 150265-77-3P  
 150265-79-5P 150267-44-0P 150291-89-7P  
 150291-90-0P 161834-30-6P 161834-31-7P  
 161834-32-8P 161834-33-9P 161834-34-0P  
 161834-35-1P 161834-36-2P 161834-37-3P 161834-38-4P  
 161834-39-5P  
 RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of poly(meth)acrylates as thickeners for cosmetic and fragrance compns.)  
 IT 89054-55-7P  
 RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of poly(meth)acrylates as thickeners for cosmetic and fragrance compns.)  
 RN 89054-55-7 HCPLUS  
 CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, 1-ethenyl-2-pyrrolidinone and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 2867-47-2  
 CMF C8 H15 N O2



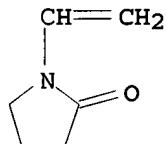
CM 2

CRN 97-90-5  
 CMF C10 H14 O4



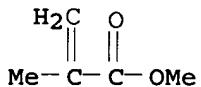
CM 3

CRN 88-12-0  
 CMF C6 H9 N O



CM 4

CRN 80-62-6  
 CMF C5 H8 O2

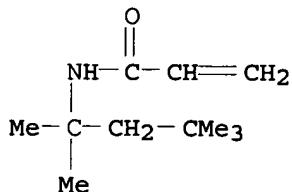


L31 ANSWER 37 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN				
AN	1995:341001 HCAPLUS			
DN	122:142039			
TI	Cosmetic composition containing a pseudo-latex film-forming polymer			
IN	Mougin, Nathalie; Mondet, Jean; Guelton, Monique; Piot, Bertrand; Dupuis, Christine; Cauwet, Danielle			
PA	Oreal S. A., Fr.			
SO	Eur. Pat. Appl., 21 pp. CODEN: EPXXDW			
DT	Patent			
LA	French			
FAN.CNT 1				
	PATENT NO.	KIND	DATE	APPLICATION NO.
PI	EP 628304	A1	19941214	EP 1994-401255
	EP 628304	B1	19981111	
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT, SE			
	FR 2706126	A1	19941216	FR 1993-6827
	FR 2706126	B1	19950721	
	CA 2125361	AA	19941209	CA 1994-2125361
	AT 173156	E	19981115	AT 1994-401255
				19940607
				19930608
				19940607
				19940607

ES 2126078	T3	19990316	ES 1994-401255	19940607
JP 07048231	A2	19950221	JP 1994-126403	19940608
US 5753215	A	19980519	US 1996-613604	19960311
PRAI FR 1993-6827	A	19930608		
US 1994-257624	B1	19940608		
AB Cosmetic compns. containing a pseudo-latex film-forming polymer that is not easily washed out with water or shampoo is claimed. A hair lotion contained crotonic acid-vinyl acetate-vinyl tert-butyl-4-benzoate which was neutralized with L-lysine (preparation given) 20, perfumes, colors, preservatives q.s. and water q.s. 100g.				
IC ICM A61K007-48				
ICS A61K007-06				
CC 62-4 (Essential Oils and Cosmetics)				
Section cross-reference(s): 35				
IT 25609-89-6P, Crotonic acid-vinyl acetate copolymer 26062-56-6P				
58748-38-2P, Crotonic acid-vinyl acetate-vinyl neodecanoate copolymer				
67016-70-0P, Amphomer lv71 68134-63-4P 149698-09-9P				
160928-66-5P 160928-67-6P 160929-52-2P 160929-53-3P 161026-55-7P				
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)				
(cosmetic composition containing a pseudo-latex film-forming polymer)				
IT 67016-70-0P, Amphomer lv71				
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)				
(cosmetic composition containing a pseudo-latex film-forming polymer)				
RN 67016-70-0 HCPLUS				
CN 2-Propenoic acid, 2-methyl-, 2-[(1,1-dimethylethyl)amino]ethyl ester, polymer with 2-hydroxypropyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, 2-propenoic acid and N-(1,1,3,3-tetramethylbutyl)-2-propenamide (9CI) (CA INDEX NAME)				

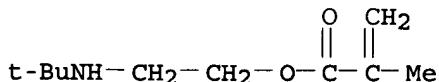
CM 1

CRN 4223-03-4  
 CMF C11 H21 N O



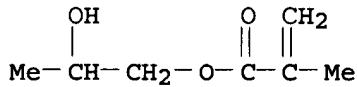
CM 2

CRN 3775-90-4  
 CMF C10 H19 N O2



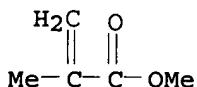
CM 3

CRN 923-26-2  
CMF C7 H12 O3



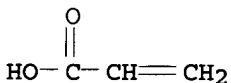
CM 4

CRN 80-62-6  
CMF C5 H8 O2



CM 5

CRN 79-10-7  
CMF C3 H4 O2



L31 ANSWER 38 OF 53 HCPLUS COPYRIGHT 2006 ACS on STN

AN 1995:297666 HCPLUS

DN 122:63981

TI hair preparations containing cationic thickeners

IN Matsumoto, Junichi; Uchama, Jujiro; Kanbe, Tetsuya; Nanba, Tomyuki

PA Osaka Juki Kogaku Kogyo K. K., Japan; Shiseido Co., Ltd.

SO Jpn. Kokai Tokkyo Koho, 32 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

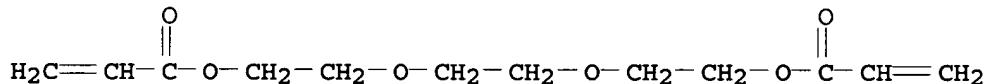
FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06219921	A2	19940809	JP 1993-298659	19931129
	JP 3488494	B2	20040119		
PRAI	JP 1993-298659	A	19931129		
	JP 1992-321872		19921201		
AB	Hair preps. (hair creams or lotions) comprising acrylic copolymers prepared from a mixture containing amine-containing (meth)acrylic acid monomers 15-90, vinyl monomers 0-80, (meth)acryloyl monomers 1-60wt.% as cationic thickeners show low skin irritancy and give good feels. Thus, a hair lotion contained a cationic thickener 0.3, propylene glycol 4.0, PEG 1500 2.0, polyoxtethylenre oleyl ether 2.5, ethanol 15.0, purified water 76.7 g , and perfumes (final pH = 5.5).				
IC	ICM A61K007-00				

ICS A61K007-06; A61K007-11; A61K007-48  
 CC 62-3 (Essential Oils and Cosmetics)  
 Section cross-reference(s): 38  
 IT 79-10-7DP, 2-Propenoic acid, copolymers 79-41-4DP, copolymers  
**160364-67-0P 160364-68-1P 160364-69-2P**  
**160364-70-5P 160364-71-6P 160364-72-7P**  
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL  
 (Biological study); PREP (Preparation); USES (Uses)  
 (hair preps. containing acrylic copolymers as cationic thickeners)  
 IT **160364-67-0P**  
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL  
 (Biological study); PREP (Preparation); USES (Uses)  
 (hair preps. containing acrylic copolymers as cationic thickeners)  
 RN 160364-67-0 HCPLUS  
 CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with  
 1-ethenyl-2-pyrrolidinone, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-  
 ethanediyl)] di-2-propenoate and octadecyl 2-propenoate (9CI) (CA INDEX  
 NAME)

CM 1

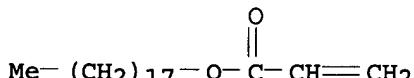
CRN 42978-66-5  
 CMF C15 H24 O6  
 CCI IDS



3 (D1-Me)

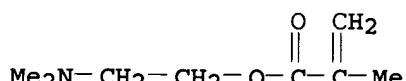
CM 2

CRN 4813-57-4  
 CMF C21 H40 O2



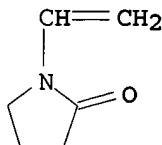
CM 3

CRN 2867-47-2  
 CMF C8 H15 N O2



CM 4

CRN 88-12-0  
 CMF C6 H9 N O



L31 ANSWER 39 OF 53 HCPLUS COPYRIGHT 2006 ACS on STN  
 AN 1994:417745 HCPLUS  
 DN 121:17745  
 TI Cosmetics containing polymer emulsions and (oligo)alkylene glycol derivatives  
 IN Sugawara, Susumu; Hosokawa, Hitoshi; Nakamura, Koichi  
 PA Kao Corp, Japan  
 SO Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

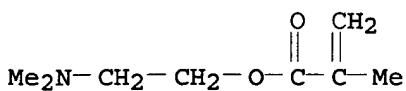
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 06056624	A2	19940301	JP 1992-211701	19920807
PRAI JP 1992-211701		19920807		
OS MARPAT 121:17745				

AB Cosmetics containing polymer emulsions and the oxyalkylene glycols R<sub>2</sub>O(R<sub>1</sub>O)<sub>n</sub>R<sub>3</sub> (I; R<sub>1</sub> = C<sub>2</sub>-4 alkylene; R<sub>2</sub>-3 = C<sub>1</sub>-8 hydrocarbyl, C<sub>1</sub>-4 acyl; n = 1-3) 1-60 weight% (based on as solid wts.) are film-forming, long-lasting, and fat- and water-resistant. I lowers the min. film-forming temperature of the polymer emulsions. An emulsion (100 parts) containing 30 weight% Me methacrylate-Bu acrylate-acrylic acid copolymer (preparation given) was mixed with 20 parts EtOCH<sub>2</sub>CH<sub>2</sub>OEt, and the emulsion 45.0, black Fe oxide 13.0, talc 10.0, Me hydroxypropyl cellulose 2.0, polyoxyethylene sorbitan monooleate 1.5, glycerin 7.0 weight%, perfume, antiseptic, and balance H<sub>2</sub>O were mixed to give a mascara.

IC ICM A61K007-00  
 ICS A61K007-032; A61K007-043  
 CC 62-4 (Essential Oils and Cosmetics)  
 Section cross-reference(s): 37  
 IT 25153-46-2P 26300-51-6P 26316-50-7P 155828-60-7P  
 RL: PREP (Preparation)  
 (preparation of, for film-forming cosmetics)  
 IT 26316-50-7P  
 RL: PREP (Preparation)  
 (preparation of, for film-forming cosmetics)  
 RN 26316-50-7 HCPLUS  
 CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with ethyl 2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

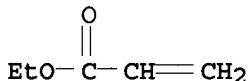
CM 1

CRN 2867-47-2  
 CMF C8 H15 N O2



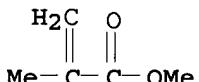
CM 2

CRN 140-88-5  
 CMF C5 H8 O2



CM 3

CRN 80-62-6  
 CMF C5 H8 O2



L31 ANSWER 40 OF 53 HCPLUS COPYRIGHT 2006 ACS on STN

AN 1994:226514 HCPLUS

DN 120:226514

TI Hair cosmetics containing cationic polymers

IN Narasaki, Kanji; Hayama, Kazuhide; Kawaguchi, Shigeoki

PA Mitsubishi Petrochemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05310538	A2	19931122	JP 1992-141035	19920507
	JP 3143720	B2	20010307		
PRAI	JP 1992-141035		19920507		
OS	MARPAT 120:226514				
AB	Hair cosmetics contain copolymers of CH <sub>2</sub> :CR <sub>1</sub> COAR <sub>2</sub> NR <sub>3</sub> R <sub>4</sub> (R <sub>1</sub> = H, Me; R <sub>2</sub> = C <sub>1</sub> -4 alkylene; R <sub>3</sub> , R <sub>4</sub> = C <sub>1</sub> -4 alkyl; A = O, NH) 50-90, CH <sub>2</sub> :CR <sub>5</sub> CO <sub>2</sub> R <sub>6</sub> (R <sub>5</sub> = H, Me; R <sub>6</sub> = C <sub>12</sub> -24 alkyl) 10-50, and polymerizing monomers can polymerize with the the polymerizing unsatd. monomers above 0-25 weight%, modified with cationization agents X (X = Br, Cl, I, C <sub>1</sub> -4 alkyl sulfate residue; B = C <sub>1</sub> -12 alkyl, benzyl, C <sub>1</sub> -3 fatty acid C <sub>1</sub> -4 alkyl ester residue). The cosmetics show good hair-setting and -conditioning properties.				
	Dimethylaminoethyl methacrylate-lauryl acrylate-cetyl methacrylate-behenyl methacrylate copolymer cationized with di-Et sulfate (preparation given) 5.0, SH 3771 (di-Me polysiloxane-polyoxyalkylene copolymer) 0.1, perfume, EtOH, and LPG 25.0, to 100 weight% were formulated into a hair spray.				

IC ICM A61K007-06

ICS A61K007-11

CC 62-3 (Essential Oils and Cosmetics)

IT 64-67-5DP, Diethyl sulfate, reaction products with amine-containing vinyl copolymers 105-39-5DP, Ethyl monochloroacetate, reaction products with amine-containing vinyl copolymers 109-69-3DP, Butyl chloride, reaction products with amine-containing vinyl copolymers 26316-49-4DP, Dimethylaminoethyl methacrylate-stearyl methacrylate copolymer, reaction product with Et monochloroacetate 154150-92-2DP, reaction product with di-Et sulfate 154150-93-3DP, reaction product with Bu chloride 154150-94-4DP, reaction products with di-Et sulfate

RL: PREP (Preparation)

(preparation of, hair cosmetics containing)

IT 26316-49-4DP, Dimethylaminoethyl methacrylate-stearyl methacrylate copolymer, reaction product with Et monochloroacetate

RL: PREP (Preparation)

(preparation of, hair cosmetics containing)

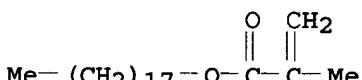
RN 26316-49-4 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with octadecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 32360-05-7

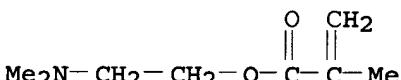
CMF C22 H42 O2



CM 2

CRN 2867-47-2

CMF C8 H15 N O2



L31 ANSWER 41 OF 53 HCPLUS COPYRIGHT 2006 ACS on STN

AN 1993:582030 HCPLUS

DN 119:182030

TI Polymers of ethylenically unsaturated nitrogen-containing monomers, their preparation in the presence of saccharides, and their use

IN Meyer, Harald; Denzinger, Walter; Sanner, Axel; Reinhardt, Rolf Dieter; Frosch, Franz; Raubenheimer, Hans Juergen

PA BASF A.-G., Germany

SO Ger. Offen., 19 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

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PI	DE 4125752	A1	19930204	DE 1991-4125752	19910803
	EP 526800	A1	19930210	EP 1992-112512	19920722
	EP 526800	B1	19970108		
	R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
	ES 2095988	T3	19970301	ES 1992-112512	19920722
	CA 2074747	AA	19930204	CA 1992-2074747	19920728
	JP 05194673	A2	19930803	JP 1992-206487	19920803

PRAI DE 1991-4125752 A 19910803

AB The title monomers are chosen from the group of N-vinylimidazoles, acrylic aminoesters, acrylic amides, N-vinylactams, and diallylalkylamines and their salts, optionally with (as comonomers) unsatd. carboxylic acids and their salts, unsatd. carboxylic esters, and small amts. of nonconjugated dienes. The monomer-saccharide ratio is (20-95):(5-80) and the products may be applied to cosmetic and perfume technol. Thus, a copolymer was prepared from 180g Me<sub>2</sub>SO<sub>4</sub>-quaternized N-vinylimidazole and 80 g N-vinylpyrrolidinone in the presence of a radical initiator and 80 g sucrose. The copolymer could be used in hair preps. The use of the saccharides improved the color, odor, hygroscopicity, and anionic surfactant compatibility.

IC ICM C08F251-00

ICS C07H003-06; A61K007-46

ICA A61K007-09; A61K007-13; A61K007-135

ICI C08F251-00, C08F226-04, C08F226-06, C08F220-60, C08F220-34, C08F220-04, C08F220-10, C08F236-20

CC 37-3 (Plastics Manufacture and Processing)

Section cross-reference(s): 38, 62

IT 25154-86-3P, Poly(dimethylaminoethyl methacrylate) 25232-42-2P, Poly(N-vinylimidazole) 26062-79-3P, Poly(diallyldimethylammonium chloride) 30581-59-0P, Dimethylaminoethyl methacrylate-N-vinylpyrrolidinone copolymer 64080-86-0P 95144-24-4P 132230-28-5P 150599-70-5P 150599-71-6P 150599-74-9P 150599-75-0P

RL: PREP (Preparation)

(preparation of, in presence of saccharides)

IT 25154-86-3P, Poly(dimethylaminoethyl methacrylate)

RL: PREP (Preparation)

(preparation of, in presence of saccharides)

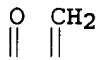
RN 25154-86-3 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 2867-47-2

CMF C8 H15 N O2



L31 ANSWER 42 OF 53 HCPLUS COPYRIGHT 2006 ACS on STN

AN 1993:434081 HCPLUS

DN 119:34081

TI Cosmetics containing cationic polymers and metal oxide hydrates

IN Fukuda, Keiichi; Hosokawa, Hitoshi; Sugawara, Tooru

PA Kao Corp, Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent  
 LA Japanese  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 05025018	A2	19930202	JP 1991-181223	19910722
PRAI JP 1991-181223		19910722		

AB Cosmetics contain 5-60 weight% (as solid) cationic polymer emulsions and 0.01-20 weight% multivalent metal oxide hydrates. The oxide hydrates stabilize pigments in the polymer emulsions, and the cosmetics show good stability and water-resistance. Beeswax 2.5, stearic acid 2.5, liquid paraffin 10.0, lanolin 1.0, sorbitan monostearate 1.5, boehmite 2.0, HCl 0.1, glycerin 4.0, triethanolamine 1.5, H<sub>2</sub>O 48.0, methylhydroxy propyl cellulose 0.5, di-Bu phthalate 2.0, Bu acrylate-N,N-dimethylaminoethyl methacrylate-Me methacrylate copolymer lactate (preparation given) 12.0, pearl pigment 10.0, ultramarine 2.0, perfume, and antiseptic agent were mixed to give cream-type eyeshadow.

IC ICM A61K007-00

ICS A61K007-02; A61K007-025; A61K007-031; A61K007-032; A61K007-42

CC 62-1 (Essential Oils and Cosmetics)

IT 75374-45-7P 143556-69-8P

RL: PREP (Preparation)

(preparation of, cosmetic emulsions containing metal oxide hydrates and)

IT 75374-45-7P

RL: PREP (Preparation)

(preparation of, cosmetic emulsions containing metal oxide hydrates and)

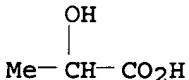
RN 75374-45-7 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with butyl 2-propenoate and methyl 2-methyl-2-propenoate, 2-hydroxypropanoate (9CI) (CA INDEX NAME)

CM 1

CRN 50-21-5

CMF C3 H6 O3



CM 2

CRN 35166-02-0

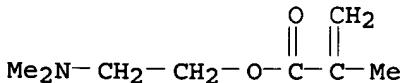
CMF (C<sub>8</sub> H<sub>15</sub> N O<sub>2</sub> . C<sub>7</sub> H<sub>12</sub> O<sub>2</sub> . C<sub>5</sub> H<sub>8</sub> O<sub>2</sub>)<sub>x</sub>

CCI PMS

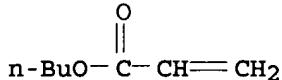
CM 3

CRN 2867-47-2

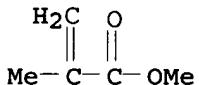
CMF C<sub>8</sub> H<sub>15</sub> N O<sub>2</sub>



CM 4

CRN 141-32-2  
CMF C7 H12 O2

CM 5

CRN 80-62-6  
CMF C5 H8 O2

L31 ANSWER 43 OF 53 HCPLUS COPYRIGHT 2006 ACS on STN

AN 1993:175521 HCPLUS

DN 118:175521

TI Aqueous nail lacquers containing composite polymer emulsions

IN Igarashi, Tadashi; Sugawara, Susumu; Yoshimatsu, Akira

PA Kao Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

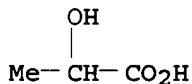
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04297409	A2	19921021	JP 1991-62913	19910327
PRAI	JP 1991-62913		19910327		
AB Vinyl polymers and CH <sub>2</sub> :C(R1)CO <sub>2</sub> R <sub>2</sub> or CH <sub>2</sub> :C(R1)CONHR <sub>2</sub> (R1 = H, Me; R2 = crosslinked cyclic hydrocarbyl) are polymerized to give an aqueous complex polymer emulsion for manufacturing a nail lacquer. A nail lacquer contained aqueous composite polymer emulsion (solid content 35%) [containing Me methacrylate-Bu acrylate-acrylic acid copolymer Et <sub>3</sub> N salt and poly(isobornyl methacrylate)] (preparation given) 100, Red pigment R-226 3, H <sub>2</sub> O 10, carbitol 0-10, di-Et phthalate 0-10, perfume 0.1 part, antiseptic, and silicone antifoamer. The nail lacquer showed good drying property, gloss, adhesion, water-resistance, abrasion-resistance, and odor.					
IC	ICM A61K007-043				
CC	62-4 (Essential Oils and Cosmetics)				
IT	28854-38-8P, Poly(adamantyl methacrylate)		55067-89-5P	64114-51-8P,	
	Poly(isobornyl methacrylate) 143453-06-9P		146695-93-4P,		
	Isobornyl acrylate-isobornyl methacrylate copolymer				
RL:	PREP (Preparation)				
	(preparation of, aqueous nail lacquers containing)				
IT	143453-06-9P				
RL:	PREP (Preparation)				
	(preparation of, aqueous nail lacquers containing)				
RN	143453-06-9 HCPLUS				

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with ethyl 2-propenoate and methyl 2-methyl-2-propenoate, 2-hydroxypropanoate (9CI) (CA INDEX NAME)

CM 1

CRN 50-21-5  
CMF C3 H6 O3

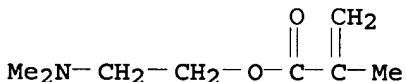


CM 2

CRN 26316-50-7  
CMF (C8 H15 N O2 . C5 H8 O2 . C5 H8 O2)x  
CCI PMS

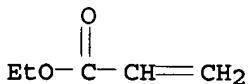
CM 3

CRN 2867-47-2  
CMF C8 H15 N O2



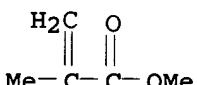
CM 4

CRN 140-88-5  
CMF C5 H8 O2



CM 5

CRN 80-62-6  
CMF C5 H8 O2



L31 ANSWER 44 OF 53 HCPLUS COPYRIGHT 2006 ACS on STN  
AN 1992:578115 HCPLUS

DN 117:178115  
 TI Aqueous nail lacquers containing cationic polymer emulsions  
 IN Fukuda, Keiichi; Sugawara, Susumu; Hosokawa, Hitoshi; Igarashi, Tadashi;  
 Kondo, Akihiro  
 PA Kao K. K., Japan  
 SO Jpn. Kokai Tokkyo Koho, 11 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 04103512	A2	19920406	JP 1990-218240	19900821
PRAI JP 1990-218240		19900821		

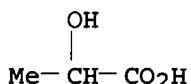
AB Aqueous nail lacquers contain 5-60 weight% (as solid) cationic polymer emulsions. The lacquers show water- and wear-resistance and adhesion property as good as conventional organic solvent-containing ones. Bu acrylate-N,N-dimethylaminoethyl methacrylate-Me methacrylate copolymer lactate emulsion (solid content 30%,  $\zeta$ -potential 40 mV) (preparation given) 67, red colorant 1.0, H<sub>2</sub>O 20.5, polyoxyethylene sorbitan monooleate 1.0, carbitol 5.0, di-Et phthalate 4.0, hydroxyethyl cellulose 1.2, perfume 0.1, an antiseptic agent 0.1, and silicone defoamer 0.1% were mixed to give an aqueous nail lacquer.

IC ICM A61K007-043  
 CC 62-4 (Essential Oils and Cosmetics)  
 IT 75374-45-7P 143753-73-5P 143820-87-5P 143820-89-7P  
 143820-90-0P 143866-36-8P 143866-38-0P 143866-40-4P  
 RL: PREP (Preparation)  
 (preparation of, aqueous nail lacquers containing, water- and wear-resistant)

IT 75374-45-7P  
 RL: PREP (Preparation)  
 (preparation of, aqueous nail lacquers containing, water- and wear-resistant)

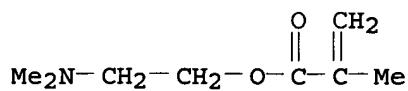
RN 75374-45-7 HCPLUS  
 CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with butyl 2-propenoate and methyl 2-methyl-2-propenoate, 2-hydroxypropanoate (9CI) (CA INDEX NAME)

CM 1  
 CRN 50-21-5  
 CMF C3 H6 O3

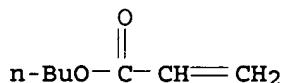


CM 2  
 CRN 35166-02-0  
 CMF (C<sub>8</sub> H<sub>15</sub> N O<sub>2</sub> . C<sub>7</sub> H<sub>12</sub> O<sub>2</sub> . C<sub>5</sub> H<sub>8</sub> O<sub>2</sub>)<sub>x</sub>  
 CCI PMS

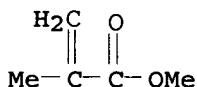
CM 3  
 CRN 2867-47-2  
 CMF C<sub>8</sub> H<sub>15</sub> N O<sub>2</sub>



CM 4

CRN 141-32-2  
CMF C7 H12 O2

CM 5

CRN 80-62-6  
CMF C5 H8 O2

L31 ANSWER 45 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1992:578090 HCAPLUS

DN 117:178090

TI Cationic group- and amphoteric group-containing polymers and hair preparations containing the polymers

IN Mori, Kiyoharu; Yamamoto, Koji; Ogino, Shuichi; Hirota, Hajime

PA Kao K. K., Japan; Goo Kagaku Kogyo K. K.

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 04095017	A2	19920327	JP 1990-211299	19900809
PRAI JP 1990-211299 19900809				
AB Hair prepns. contain polymers having repeating units of [CH <sub>2</sub> C(R <sub>1</sub> )COA <sub>1</sub> R <sub>2</sub> N+Me <sub>2</sub> R <sub>3</sub> X-] [A <sub>1</sub> = O, NH; R <sub>1</sub> = H, Me; R <sub>2</sub> = C <sub>1-4</sub> alkylene; R <sub>3</sub> = C <sub>1-4</sub> alkyl, PhCH <sub>2</sub> , CH <sub>2</sub> CH <sub>2</sub> OH, 2,3-epoxypropyl, CH <sub>2</sub> CHMeOH, CH <sub>2</sub> CH(OH)(OCH <sub>2</sub> CH <sub>2</sub> )nOH; X = halo, alkyl sulfate residue; n = 1-9] 5-40, [CH <sub>2</sub> C(R <sub>4</sub> )COA <sub>2</sub> R <sub>5</sub> N+Me <sub>2</sub> R <sub>6</sub> CO <sub>2</sub> -] (A <sub>2</sub> = O, NH; R <sub>4</sub> = H, Me; R <sub>5</sub> , R <sub>6</sub> = C <sub>1-4</sub> alkylene) 40-90, and [CH <sub>2</sub> CMeCO <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> OH] 5-40 mol%. The prepns. have good hair conditioning effects. N-Acylated Na L-glutamate 12.0, imidazolinium betaine derivative 8.0, coconut oil fatty acid diethanolamide 5.0, ethylene glycol distearate 2.0, aqueous solution containing 30% copolymer of 40:50:10 mol% [CH <sub>2</sub> CMeCO <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> N+Me <sub>2</sub> Pr Cl-], [CH <sub>2</sub> CMeCO <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> N+Me <sub>2</sub> CH <sub>2</sub> CO <sub>2</sub> -], and [CH <sub>2</sub> CMeCO <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> OH] (preparation given) 1.0, perfume 0.5, EtOH 1.0, and H <sub>2</sub> O to 100 weight% were mixed to give a shampoo.				
IC ICM A61K007-06				

CC 62-3 (Essential Oils and Cosmetics)

IT 74-96-4DP, Ethyl bromide, reaction products with aminoalkylated methacrylic copolymers and nonochloroacetic acid salt 540-51-2DP, Ethylenebromohydrin, reaction products with aminoalkylated methacrylic copolymers and nonochloroacetic acid salt 540-54-5DP, Propyl chloride, reaction products with aminoalkylated methacrylic copolymers and nonochloroacetic acid salt 3926-62-3DP, Sodium monochloroacetate, reaction products with aminoalkylated methacrylic copolymers and alkyl halides 7748-25-6DP, Potassium monochloroacetate, reaction products with aminoalkylated methacrylic copolymers and alkyl halides 31693-07-9DP, (Diethylamino)ethyl methacrylate-2-hydroxyethyl methacrylate copolymer, reaction products with alkyl halide and monochloroacetic acid salt 32963-33-0DP, (Dimethylamino)ethyl methacrylate-2-hydroxyethyl methacrylate copolymer, reaction products with alkyl halide and monochloroacetic acid salt 122912-43-0DP, reaction products with alkyl halide and monochloroacetic acid salt 143987-32-0DP, reaction products with alkyl halide and monochloroacetic acid salt

RL: PREP (Preparation)

(preparation of, for hair conditioning preps.)

IT 31693-07-9DP, (Diethylamino)ethyl methacrylate-2-hydroxyethyl methacrylate copolymer, reaction products with alkyl halide and monochloroacetic acid salt

RL: PREP (Preparation)

(preparation of, for hair conditioning preps.)

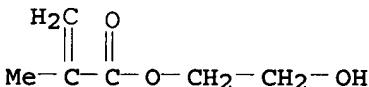
RN 31693-07-9 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(diethylamino)ethyl ester, polymer with 2-hydroxyethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 868-77-9

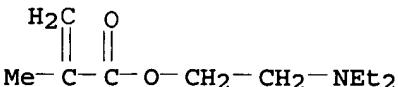
CMF C6 H10 O3



CM 2

CRN 105-16-8

CMF C10 H19 N O2



L31 ANSWER 46 OF 53 HCPLUS COPYRIGHT 2006 ACS on STN

AN 1992:537450 HCPLUS

DN 117:137450

TI Aqueous nail lacquers containing acrylic polymer emulsions

IN Sugawara, Susumu; Fukuda, Keiichi; Hosokawa, Hitoshi; Igarashi, Tadashi; Kondo, Akihiro

PA Kao K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04103513	A2	19920406	JP 1990-218241	19900821
	JP 2895589	B2	19990524		

PRAI JP 1990-218241

AB Aqueous nail lacquers contain emulsions containing ≥2 acrylic polymers whose glass transition temps. ( $T_g$ ) are different by  $\geq 10^\circ$ . The lacquers show water- and wear-resistance and adhesion property as good as conventional ones containing organic solvents. Bu acrylate-N,N-dimethylaminoethyl methacrylate-Me methacrylate copolymer emulsion ( $T_g$  50°, solid content 30%) 90, Bu acrylate-N,N-dimethylaminoethyl methacrylate-Me methacrylate copolymer acetate emulsion ( $T_g$  10°, solid content 30%) 10, red colorant 3, H<sub>2</sub>O 10, carbitol 10, di-Et phthalate 5, hydroxyethyl cellulose 0.5, perfume 0.1, antiseptic agent 0.1, and silicone defoamer 0.1% were mixed to give an aqueous nail lacquer.

IC ICM A61K007-043

CC 62-4 (Essential Oils and Cosmetics)

IT 26300-51-6P, Acrylic acid-butyl acrylate-methyl methacrylate copolymer  
35166-02-0P 55935-28-9P, Acrylic acid-butyl acrylate-methyl methacrylate copolymer ammonium salt 143453-08-1PRL: PREP (Preparation)  
(preparation of, aqueous nail lacquers containing acrylic polymer and)

IT 35166-02-0P

RL: PREP (Preparation)  
(preparation of, aqueous nail lacquers containing acrylic polymer and)

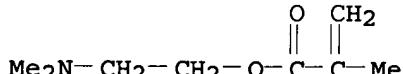
RN 35166-02-0 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with butyl 2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 2867-47-2

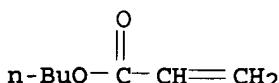
CMF C8 H15 N O2



CM 2

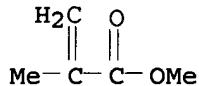
CRN 141-32-2

CMF C7 H12 O2



CM 3

CRN 80-62-6  
 CMF C5 H8 O2

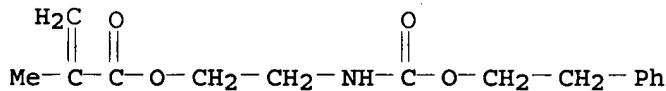


L31 ANSWER 47 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1989:173891 HCAPLUS  
 DN 110:173891  
 TI Chemical release control: carbamates of 3-vinylphenyl and 2-methacryloyloxyethyl isocyanates and perfume and herbicide alcohols  
 AU Kamogawa, Hiroyoshi; Kohno, Hiroyuki; Kitagawa, Rikiya  
 CS Dep. Appl. Chem., Yamanashi Univ., Kofu, 400, Japan  
 SO Journal of Polymer Science, Part A: Polymer Chemistry (1989), 27(2), 487-95  
 CODEN: JPACCE; ISSN: 0887-624X  
 DT Journal  
 LA English  
 AB Polymerizable carbamates were synthesized from 3-vinylphenyl and 2-methacryloyloxyethyl isocyanates and perfume and herbicide alcs., such as 2-phenethyl alc., citronellol, geraniol, 1-menthol, borneol, and 2-(2,4-dichlorophenoxy)- and 2-(2,4,5-trichlorophenoxy)ethyl alcs. Copolyrn. of these carbamate monomers and N-vinyl-2-pyrrolidone with AIBN in dioxane gave resp. copolymers. Hydrolyses of both monomers and copolymers, however, required severe acid conditions, although different chemical structures gave different hydrolytic behaviors.  
 CC 35-8 (Chemistry of Synthetic High Polymers)  
 Section cross-reference(s): 5, 62  
 ST alc perfume herbicide release carbamate; hydrolysis  
 perfume herbicide alc carbamate; polymn perfume  
 herbicide alc carbamate; vinylpyrrolidinone carbamate copolymer  
 IT Herbicides  
     Perfumes and Essences  
     (alcs., chemical release of, from carbamates)  
 IT Hydrolysis  
     (of vinylphenyl- and methacryloyloxyethylcarbamates, perfume and herbicide alc. release by)  
 IT 120247-44-1P 120247-45-2P 120247-46-3P 120247-47-4P 120247-48-5P  
 120247-49-6P 120247-50-9P 120247-51-0P 120247-52-1P 120247-53-2P  
 120247-54-3P 120247-55-4P 120248-32-0P 120248-33-1P  
 120248-34-2P 120248-35-3P 120248-36-4P  
 120248-37-5P 120248-38-6P 120248-39-7P  
 120248-40-0P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and hydrolysis of)  
 IT 16529-22-9P 30674-80-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and reaction of, with perfume and herbicide alcs.)  
 IT 120248-34-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and hydrolysis of)  
 RN 120248-34-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[(2-phenylethoxy)carbonyl]aminoethyl ester, polymer with 1-ethenyl-2-pyrrolidinone (9CI) (CA INDEX NAME)

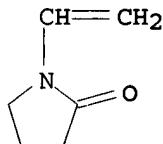
CM 1

CRN 120247-49-6  
CMF C15 H19 N O4



CM 2

CRN 88-12-0  
CMF C6 H9 N O



L31 ANSWER 48 OF 53 HCPLUS COPYRIGHT 2006 ACS on STN  
AN 1982:498171 HCPLUS

DN 97:98171

TI Cosmetic composition containing at least one polymer having units derived from acrylamidoglycolic acid or N-(2-oxopyrrolidinomethyl)acrylamide

IN Mahieu, Claude; Papantoniou, Christos

PA Oreal S. A., Fr.

SO Fr. Demande, 20 pp.

CODEN: FRXXBL

DT Patent

LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 2492658	A1	19820430	FR 1980-23026	19801028
	FR 2492658	B1	19870320		

PRAI FR 1980-23026 19801028

AB Compns. for improving the brilliancy and holding ability of hair and for preventing skin dehydration contain the title polymers, e.g. poly(acrylamido glycolic acid) (I) [70748-29-7], acrylamidoglycolic acid-tert-butylacrylamide-Me methacrylate copolymer [82780-05-0], or poly(2-oxopyrrolidinomethyl)acrylamide [25765-49-5]. Thus, I was prepared by polymerizing 4 g acrylamidoglycolic acid in 12 g EtOH in the presence of 0.1 g azobisisobutyronitrile. A hair lotion was prepared containing I 2, perfume 0.1, EtOH 50, and H2O q.s.p. 100 g.

IC A61K007-00; C08F020-58; C08F020-60

CC 62-3 (Essential Oils and Cosmetics)

IT 25765-49-5P 70748-29-7P 82779-77-9P 82780-05-0P 82780-06-1P  
82780-07-2P 82780-08-3P 82780-09-4P 82780-10-7DP,  
quaternized 82780-10-7P 82780-11-8P  
82780-12-9P

RL: PREP (Preparation)

(preparation of, for cosmetics and hair preps.)

IT 82780-10-7DP, quaternized

RL: PREP (Preparation)

(preparation of, for cosmetics and hair preps.)

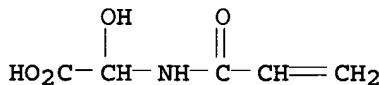
RN 82780-10-7 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with hydroxy[(1-oxo-2-propenyl)amino]acetic acid (9CI) (CA INDEX NAME)

CM 1

CRN 6737-24-2

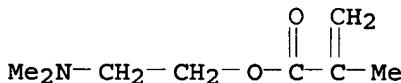
CMF C5 H7 N O4



CM 2

CRN 2867-47-2

CMF C8 H15 N O2



L31 ANSWER 49 OF 53 HCPLUS COPYRIGHT 2006 ACS on STN

AN 1981:575564 HCPLUS

DN 95:175564

TI Cosmetic compositions containing polymers produced in the presence of cerium ions

IN Jacquet, Bernard; Mondet, Jean; Papantoniou, Christos

PA Oreal S. A., Fr.

SO U.S., 16 pp. Cont.-in-part of U.S. Ser. No. 740,015, abandoned.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4283384	A	19810811	US 1979-5919	19790123
PRAI	US 1976-740015	A2	19761108		
AB A cosmetic composition for application to hair or skin comprises at least 1 polymer obtained from an unsatd. monomer (acrylate, methacrylate, etc.) and a compound having at least 1 OH group (gelatin, starch, cellulose, polyvinyl alc., etc.) in an aqueous medium in the presence Ce ions. Thus, a hair setting lotion prepared from a trisequenced poly(Me methacrylate)-poly(N-vinylpyrrolidone)-poly(Me methacrylate) copolymer (I) 2, perfume 0.1, EtOH 50, and H2O to 100 g, applied to hair imparts a shiny appearance, the hair exhibiting good holding characteristics. I was prepared from poly(vinylpyrrolidinone) [9003-39-8] containing an OH function at each end of the chain and Me methacrylate in a solution of ceric ammonium nitrate in HNO3.					

IC A61K007-043; A61K007-06; A61K007-08; A61K007-11

INCL 424047000

CC 62-3 (Essential Oils and Cosmetics)

Section cross-reference(s): 35

IT 25655-01-0DP, hydroxy group containing 26124-23-2DP, hydroxy-group containing  
 26222-42-4DP, hydroxy-group containing, quaternized 28062-44-4DP,  
 hydroxy-group containing 28389-80-2DP, hydroxy-group containing  
 30581-59-0DP, hydroxy-group containing, quaternized 51131-54-5P  
 63566-44-9P 63566-47-2DP, hydroxy-group containing, cyclized 63566-48-3DP,  
 hydroxy-group containing, cyclized 63594-22-9DP, quaternized  
 79509-11-8P

RL: PREP (Preparation)

(block, preparation of, for cosmetics)

IT 79-06-1DP, polymers with Cellosize WP-09 and collagen 80-62-6DP,  
 polymers with gelatin and Me hydroxybutyl cellulose 9004-62-0DP,  
 polymers with acrylamide and collagen 9041-56-9DP, polymers with gelatin  
 and Me methacrylate 25154-86-3DP, polymers with gelatin,  
 quaternized 25154-86-3DP, quaternized 25267-41-8P  
 26008-54-8P 38317-05-4DP, quaternized 53682-65-8P  
 56388-71-7DP, hydrolyzed, quaternized 61469-13-4DP,  
 quaternized 61577-13-7P 61910-30-3P 63603-48-5P 63603-51-0DP  
 , quaternized 63603-54-3DP, quaternized 63603-57-6P  
 63603-58-7P 63666-94-4DP, hydrolyzed, quaternized  
 79509-12-9DP, hydroxy-group containing

RL: PREP (Preparation)

(graft, preparation of, for cosmetics)

IT 9003-39-8DP, hydroxy-terminated 25086-89-9DP, hydrolyzed  
 25154-86-3DP, hydroxy-terminated, quaternized 25609-89-6DP,  
 hydrolyzed 63566-49-4DP, hydroxy-terminated 63566-49-4P

RL: PREP (Preparation)

(preparation of, as prepolymer in preparation of polymers for cosmetics)

IT 63603-49-6DP, quaternized

RL: PREP (Preparation)

(star-block, preparation of, for cosmetics)

IT 26222-42-4DP, hydroxy-group containing, quaternized

RL: PREP (Preparation)

(block, preparation of, for cosmetics)

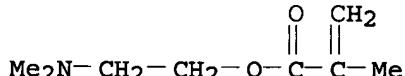
RN 26222-42-4 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with  
 methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 2867-47-2

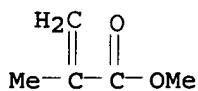
CMF C8 H15 N O2



CM 2

CRN 80-62-6

CMF C5 H8 O2



L31 ANSWER 50 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1978:78964 HCAPLUS

DN 88:78964

TI N-Alkylacrylamide or -methacrylamide mixed polymers and cosmetic compositions containing them

IN Mahieu, Claude; Papantoniou, Christos

PA Oreal S. A., Fr.

SO Ger. Offen., 37 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2715297	A1	19771027	DE 1977-2715297	19770405
	BE 853252	A1	19771005	BE 1977-176427	19770405
	NL 7703734	A	19771010	NL 1977-3734	19770405
	JP 52123480	A2	19771017	JP 1977-38199	19770405
	JP 62013364	B4	19870326		
	FR 2432528	A1	19800229	FR 1977-10221	19770405
	FR 2432528	B1	19810213		
	GB 1572555	A	19800730	GB 1977-14452	19770405
	CH 622272	A	19810331	CH 1977-4295	19770405
	AT 7702359	A	19810415	AT 1977-2359	19770405
	AT 364707	B	19811110		
	BR 7702204	A	19780725	BR 1977-2204	19770406
	CA 1108056	A1	19810901	CA 1977-275728	19770406
	US 4289752	A	19810915	US 1978-959623	19781113

PRAI LU 1976-74707

LU 1976-75371

US 1977-783632

A3 19770401

AB N-alkylacrylamide or N-alkylmethacrylamide copolymers are prepared and used in 2-30% concns. in cosmetic formulations such as hair sprays, setting lotions, and nail lacquers. For example, a N-tert-butylacrylamide-N-hydroxymethylacrylamide-Me methacrylate copolymer (I) [65447-69-0] was prepared by polymerization of the monomers in EtOH at 80° in the presence of azobis(isobutyronitrile). An aqueous setting lotion was prepared from I 2, perfume 0.1, EtOH 45, and H<sub>2</sub>O to 100 g. When applied to hair in the usual way, the lotion left the hair glossy and with good curl retention.

IC C08F220-56

CC 62-3 (Essential Oils and Cosmetics)

IT	65396-46-5P	65396-47-6P	65396-48-7P	65396-49-8P	65396-50-1P
	65396-51-2P	65396-52-3P	65396-53-4P	65396-54-5P	65396-55-6P
	65396-56-7P	65396-57-8P	65396-58-9P	65396-59-0P	65396-60-3P
	65396-61-4P	65396-62-5P	65396-63-6P	65396-64-7P	
	65396-65-8P	65447-69-0P	65455-88-1P	65455-89-2P	

RL: PREP (Preparation)

(preparation of, for hair preps. and nail lacquers)

IT 65396-64-7P

RL: PREP (Preparation)

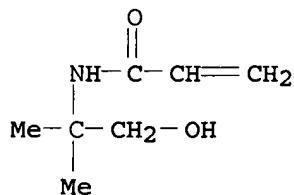
(preparation of, for hair preps. and nail lacquers)

RN 65396-64-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, N-(1,1-dimethylethyl)-2-propenamide, N-(2-hydroxy-1,1-dimethylethyl)-2-propenamide and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

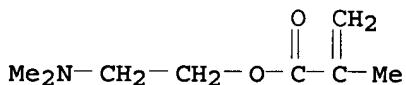
CM 1

CRN 13880-03-0  
CMF C7 H13 N O2



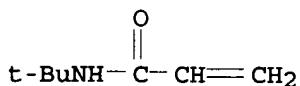
CM 2

CRN 2867-47-2  
CMF C8 H15 N O2



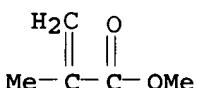
CM 3

CRN 107-58-4  
CMF C7 H13 N O



CM 4

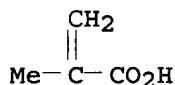
CRN 80-62-6  
CMF C5 H8 O2



CM 5

CRN 79-41-4

CMF C4 H6 O2



L31 ANSWER 51 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1978:65868 HCAPLUS  
 DN 88:65868  
 TI N-Alkylacrylamide or -methacrylamide terpolymers and higher polymers, and cosmetic compositions containing them  
 IN Mahieu, Claude; Papantoniou, Christos  
 PA Oreal S. A., Fr.  
 SO Ger. Offen., 25 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2715296	A1	19771027	DE 1977-2715296	19770405
	BE 853251	A1	19771005	BE 1977-176426	19770405
	NL 7703735	A	19771010	NL 1977-3735	19770405
	JP 52123482	A2	19771017	JP 1977-38200	19770405
	JP 62013365	B4	19870326		
	FR 2360615	A1	19780303	FR 1977-10220	19770405
	FR 2360615	B1	19810213		
	GB 1572626	A	19800730	GB 1977-14451	19770405
	CH 622024	A	19810313	CH 1977-4296	19770405
	AT 7702358	A	19810415	AT 1977-2358	19770405
	AT 364706	B	19811110		
	BR 7702205	A	19780725	BR 1977-2205	19770406
	CA 1111193	A1	19811020	CA 1977-275689	19770406
PRAI	LU 1976-74708	A	19760406		
	LU 1976-75370	A	19760712		

AB N-alkylacrylamide or N-alkylmethacrylamide terpolymers are prepared for use in hair sprays and aqueous setting lotions which impart especially good curl retention to human hair. For example, an acrylamide-Me methacrylate-N-tert-butylacrylamide copolymer (I) [65396-72-7] was prepared by polymerization of the monomers in EtOH at 80° in the presence of azobis(isobutyronitrile). An aqueous setting lotion was prepared from I 2, perfume 0.1, EtOH 45 and H2O to give 100 g. This lotion imparted gloss and good curl retention when applied to hair.

IC C08F220-56  
 CC 62-3 (Essential Oils and Cosmetics)  
 IT 65396-72-7P 65396-73-8P 65396-74-9P 65396-75-0P 65396-76-1P  
 65396-77-2P 65396-78-3P 65396-79-4P 65396-80-7P  
 65396-81-8P 65396-82-9P 65396-83-0P 65455-85-8P  
 65455-86-9P 65455-87-0P

RL: PREP (Preparation)  
 (preparation of, for hair preps. and nail lacquers)

IT 65396-78-3P  
 RL: PREP (Preparation)  
 (preparation of, for hair preps. and nail lacquers)

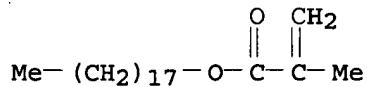
RN 65396-78-3 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with N-(1,1-dimethylethyl)-2-propenamide, methyl 2-methyl-2-propenoate,

octadecyl 2-methyl-2-propenoate and 2-propenamide (9CI) (CA INDEX NAME)

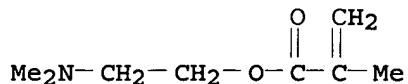
CM 1

CRN 32360-05-7  
CMF C22 H42 O2



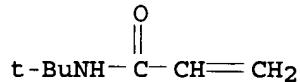
CM 2

CRN 2867-47-2  
CMF C8 H15 N O2



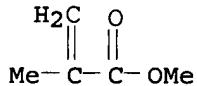
CM 3

CRN 107-58-4  
CMF C7 H13 N O



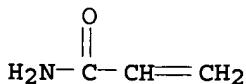
CM 4

CRN 80-62-6  
CMF C5 H8 O2



CM 5

CRN 79-06-1  
CMF C3 H5 N O



L31 ANSWER 52 OF 53 HCAPLUS COPYRIGHT 2006 ACS on STN  
 AN 1977:473233 HCAPLUS  
 DN 87:73233  
 TI Cosmetic compositions  
 IN Jacquet, Bernard; Mondet, Jean; Papantoniou, Christos  
 PA Oreal S. A., Fr.  
 SO Ger. Offen., 48 pp.  
 CODEN: GWXXBX  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2646675	A1	19770421	DE 1976-2646675	19761015
	DE 2646675	B2	19800306		
	DE 2646675	C3	19801023		
	BE 847267	A1	19770414	BE 1976-171499	19761014
	FR 2327761	A1	19770513	FR 1976-30886	19761014
	FR 2327761	B1	19810529		
	CH 620115	A	19801114	CH 1976-13028	19761014
	JP 52054034	A2	19770502	JP 1976-123009	19761015
	GB 1541670	A	19790307	GB 1976-42951	19761015
	CA 1091156	A1	19801209	CA 1976-263480	19761015

PRAI LU 1975-73587 A 19751015  
 AB Block copolymers obtained by polymerizing an unsatd. monomer and an OH--group containing compound in the presence of Ce ions are used in various cosmetic compns., such as hair lotions, shampoos, nail lacquers, skin creams, etc. For example, a block Me methacrylate-N-vinylpyrrolidone copolymer [25655-01-0] was prepared by mixing an aqueous solution of polyvinylpyrrolidone prepolymer containing 2-OH end groups, Me methacrylate, and a solution of (NH<sub>4</sub>)<sub>2</sub>Ce(NO<sub>3</sub>)<sub>6</sub> in HNO<sub>3</sub>. The mixture was kept at room temperature for 4 h, and poured into an iso-PrOH-Et<sub>2</sub>O mixture to precipitate the polymer. A hair setting lotion was formulated containing 2 g of the block polymer dissolved in 50 g EtOH, 0.1 g perfume and H<sub>2</sub>O up to 100 g. The lotion made the hair shiny and gave excellent style retention.

IC A61K007-00  
 CC 62-1 (Essential Oils and Cosmetics)  
 Section cross-reference(s): 36  
 IT 80-62-6DP, polymer with gelatin 2867-47-2DP, polymers with collagen or gelatin, quaternized with ethyl bromide 25214-47-5P 26008-54-8P  
 53682-65-8P 61910-30-3P 63566-47-2P 63603-48-5P 63603-50-9P  
 63603-52-1P 63603-53-2P 63603-55-4P  
 63603-56-5P 63603-57-6P 63603-58-7P 63603-59-8P 63604-68-2P  
 63666-93-3P 63666-95-5P 63666-96-6P  
 RL: PREP (Preparation)

(block, graft, preparation of, for cosmetic and hair preps.)

IT 63566-48-3P 63594-23-0P  
 RL: PREP (Preparation)  
 (block, preparation of, for cosmetic and hair preps.)

IT 25655-01-0P 26124-23-2P 28062-44-4P 28389-80-2P 63566-44-9P  
 63566-46-1P  
 RL: PREP (Preparation)  
 (block, preparation of, for cosmetics and hair preps.)

IT 58883-60-6P  
 RL: PREP (Preparation)  
 (preparation of, for cosmetics and hair preps.)

IT 63603-50-9P

## RL: PREP (Preparation)

(block, graft, preparation of, for cosmetic and hair prepns.)

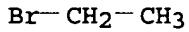
RN 63603-50-9 HCPLUS

CN Cellulose, methyl ether, polymer with 2-(dimethylamino)ethyl  
2-methyl-2-propenoate, compd. with bromoethane (9CI) (CA INDEX NAME)

CM 1

CRN 74-96-4

CMF C2 H5 Br



CM 2

CRN 63603-49-6

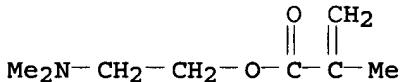
CMF (C8 H15 N O2 . C H4 O . x Unspecified)x

CCI PMS

CM 3

CRN 2867-47-2

CMF C8 H15 N O2



CM 4

CRN 9004-67-5

CMF C H4 O . x Unspecified

CM 5

CRN 9004-34-6

CMF Unspecified

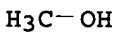
CCI PMS, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 6

CRN 67-56-1

CMF C H4 O



L31 ANSWER 53 OF 53 HCPLUS COPYRIGHT 2006 ACS on STN

AN 1976:468139 HCPLUS

DN 85:68139

TI Cosmetic preparations containing ultraviolet light-absorbing polymers

PA Oreal S. A., Fr.

SO Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

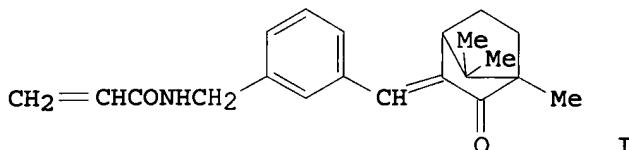
DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 50025740	A2	19750318	JP 1973-73001	19730629
JP 59029562	B4	19840721		
PRAI JP 1973-73001	A	19730629		

GI



AB Cosmetic preps. (especially suntan lotions) containing the uv-absorbing polymers or copolymers [CH<sub>2</sub>CH(CONHCH<sub>2</sub>Z)]<sub>n</sub>, prepared from CH<sub>2</sub>:CHCONHCH<sub>2</sub>Z [Z = uv (280-315 nm) absorbing aromatic group], are capable of preventing sunlight-induced inflammation. Thus, 3-(acrylamidomethylbenzidylene)-DL-camphor (I) and N-vinylpyrrolidone were polymerized to give a copolymer (II) [55511-51-8]. A spray contained II 10, Sipol wax 3.5, petrolatum 6, isopropyl myristate 3, Me p-hydroxybenzoate 0.3, glycerol 10, perfume 0.3 and H<sub>2</sub>O 100 g and F12.

IC A61K007-42

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 35

IT 79-06-1DP, 2-Propenamide, N-aryl derivative polymers 55511-48-3P

55511-51-8P 55511-52-9P 55511-53-0P 55511-54-1P 55511-58-5P

55511-59-6P 55851-88-2P 55903-04-3P 55903-05-4P 56698-85-2P

59936-68-4P 59941-56-9P

RL: PREP (Preparation)

(preparation of, for sunscreens)

IT 56698-85-2P

RL: PREP (Preparation)

(preparation of, for sunscreens)

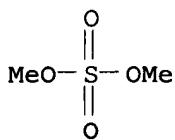
RN 56698-85-2 HCPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with N-[(3-[(4,7,7-trimethyl-3-oxobicyclo[2.2.1]hept-2-ylidene)methyl]phenyl)methyl]-2-propenamide, compd. with dimethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 77-78-1

CMF C2 H6 O4 S



CM 2

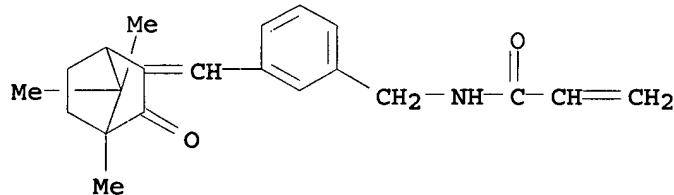
CRN 55511-50-7

CMF (C<sub>21</sub> H<sub>25</sub> N O<sub>2</sub> . C<sub>8</sub> H<sub>15</sub> N O<sub>2</sub>)<sub>x</sub>

CCI PMS

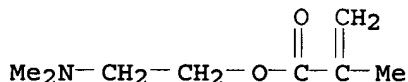
CM 3

CRN 52367-29-0

CMF C<sub>21</sub> H<sub>25</sub> N O<sub>2</sub>

CM 4

CRN 2867-47-2

CMF C<sub>8</sub> H<sub>15</sub> N O<sub>2</sub>

=&gt;